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DS, GS, AND DEPOT MAINTENANCE MANUAL
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HEADQUARTERS, DEPARTMENT OF THE ARMY

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*TM 11–5820–364–35–2

TECHNICAL MANUAL
No. 11–5820–364–35–2

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D. C., *19 May 1969*

DS, GS, and Depot Maintenance Manual Including Repair Parts and Special Tools List

RADIO SET AN/SRC–6A

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*This manual supersedes those portions of TM 11–5820–364–35P, 31 May 1960, that pertain to Radio set AN/SRC–6A.

CHAPTER 1

INTRODUCTION

1–1. Scope

a. This manual contains direct support (DS), general support (GS), and depot maintenance instructions for Radio Set AN/SRC–6A (radio set). It includes instructions appropriate to DS, GS, and depot maintenance for troubleshooting, testing, aligning, and repairing the equipment. It also lists tools, materials, and test equipment required for general support and depot maintenance. Functional analysis of the equipment is covered in this manual.

b. The complete technical manual for this equipment includes TM 11–5820–364–12–2.

1–2. Indexes of Publications

a. DA Pam 310–4. Refer to DA Pam 310–4 to determine whether there are new editions, Changes or additional publications pertaining to the equipment.

b. DA Pam 310–7. Refer to DA Pam 310–7 to determine whether there are modification work orders (MWO's) pertaining to the equipment.

1–3. Reporting of Equipment Manual Improvements

The reporting of errors, omissions, and recommendations for improving this manual by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to DA Publications) and forwarded direct to Commanding General, U. S. Army Electronics Command, ATTN: AMSEL–ME–NMP–AD, Fort Monmouth, N. J. 07703.

Note. For applicable forms and records, refer to TM 11–5820–364–12–2.

CHAPTER 2

FUNCTIONING OF EQUIPMENT

Section I. BLOCK DIAGRAM ANALYSIS

2-1. General

This chapter contains block diagram analysis and detailed functioning of Radio Set AN/SRC-6A. The AN/SRC-6A is composed of two transmitters and two receivers. One transmitter operates on 500 kilocycles (kc) and the other operates on 8.364 megacycles (mc). One receiver can receive in the range of 492 to 508 kc, but usually is fixed-tuned to 500 kc. The other receiver can be tuned manually within the range of 8.266 and 8.745 mc.

2-2. Block Diagram Discussion

The signal paths shown in the block diagrams (fig. 2-1) are discussed in *a* through *f* below. For detailed circuit functioning, refer to paragraphs 2-3 through 2-9.

a. Reception, 492 to 508 Kc (A, fig. 2-1). Signals picked up by the antenna are applied to radiofrequency (RF) amplifier V1A where they are amplified; they are then further amplified by RF amplifier V2. Detector CR1 separates the audio intelligence from the rf signal which is then amplified by audio amplifier V3A and applied to the headset.

b. Reception, 8.266 to 8.745 Mc (B, fig. 2-1). Signals picked up by the antenna are applied to mixer V1A. Oscillator V1B generates an RF signal that beats with the incoming signal in V1A to produce an intermediate frequency (if.) signal which is amplified by IF amplifier V2. Beat-frequency oscillator (bfo) stage V3B generates a signal that beats with the IF signal to produce intelligence. Detector CR1 separates the audio intelligence from the IF signals. The audio signal is amplified by audio amplifier V3A, then is applied to the headset.

c. Manual Transmission, 500 Kc (C, fig. 2-1). Crystal-controlled rf oscillator V4B generates a signal at 500 kc, which is amplified by power amplifier V5, then applied to the antenna. Audio oscillator V6B generates an audio tone that is amplified by modulator V6A, which applies it to V5 to modulate the RF signal to produce tone modulation.

d. Manual Transmission, 8.364 Mc (D, fig. 2-1). Crystal-controlled RF oscillator V4B generates a signal at 8.364 mc, which is amplified by power amplifier V5, then applied to the antenna. Audio oscillator V6B generates an audio tone that is amplified by modulator V6A, which applies it to V5 to modulate the RF signal to produce tone modulation.

e. Automatic Transmission, 500 Kc and 8.364 Mc (E, fig. 2-1). Crystal-controlled RF oscillator V4A generates asignal at 8.364 mc, which is amplified by power amplifier V5, then applied to the keyer. Crystal-controlled RF oscillator V4B generates a signal at 500 kc, which is amplified by power amplifier V5, then applied to the keyer. The keyer switches the output of the two transmitters alternately to the antenna.

f. Power Supply. All necessary power for the transmitters and receivers is supplied by the hand-cranked generator.

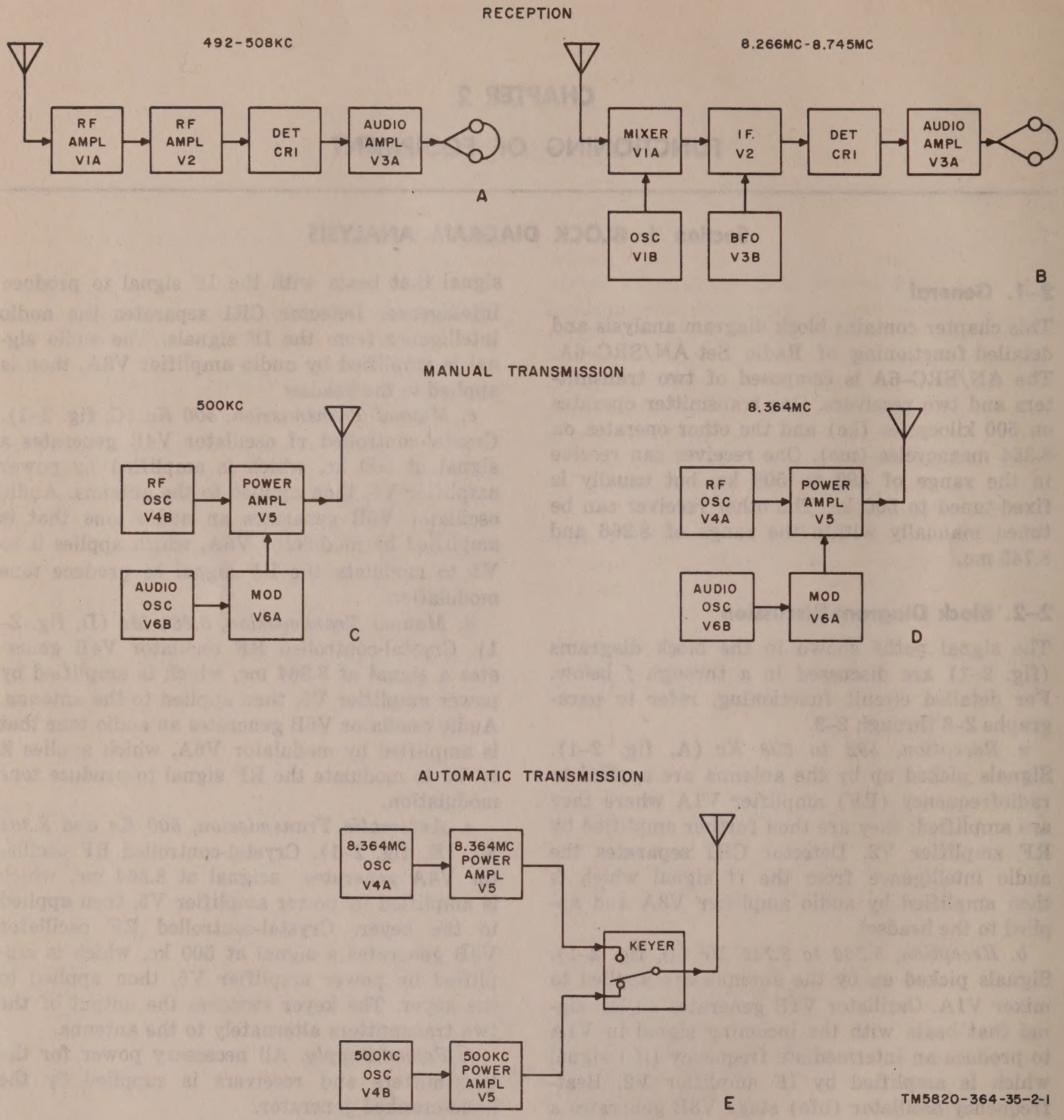


Figure 2–1. Radio Set AN/SRC-6A, block diagrams.

Section II. DETAILED CIRCUIT FUNCTIONING

2–3. Reception, 492 to 508 Kc
(fig. 4–3)

The receiver is of the tuned radiofrequency type and can receive voice or tone-modulated signals.

a. During reception in this range, switch S1 is in the MAN. 500 position. Signals from the antenna appear at point A and pass through the tuning coils, including variometer L8, then through switch S3, coil L6, contacts 1 and 2 of relay K1, and through switch S1-B to pin 2 of RF amplifier V1A.

b. Resistor R1 is the grid-return resistor. Capacitor C2 is the cathode bypass. Resistor R3 is the minimum cathode-bias resistor. Resistors R18 and R19 form a voltage-divider network for biasing V1A and V2. Resistor R2 is the screen-grid voltage-dropping resistor, and capacitor C1 is the bypass. Amplified signals from the plate of V1A are applied to the primary of transformer T2.

c. The signals are transformed to the secondary of T2 and applied to the grid of RF amplifier V2. Capacitors C7 and C9 are trimmers for T2. Capacitor C8, with resistor R6, forms a plate decoupling network.

d. Resistor R7 is the minimum cathode-bias resistor, and capacitor C10 is the cathode bypass. Resistor R8 is the screen-grid voltage-dropping resistor, and capacitor C11 is the bypass.

e. Amplified signals from the plate of V2 are applied to the primary of transformer T3. The signals are transformed to the secondary and applied to detector CR1. Resistor R9, with capacitor C12, forms a decoupling network. Capacitors C13 and C16 are trimmers for T3.

f. Detector CR1 removes the audio intelligence from the RF signal and applies it, through voltage divider-filter R10, R11, and C18, then through coupling capacitor C19 to the grid of audio amplifier V3A. Capacitor C17 is the detector filter, and R12 is the grid-return resistor. Capacitor C20 is the cathode-bias resistor. The amplified audio signals from the plate circuit are applied across load resistor R15 and to the headset. Capacitor C25 isolates the headset from direct current (dc) plate voltage. Capacitor C24 is the plate RF bypass, and C44B is an audio bypass. Resistor R16 is a plate decoupling resistor.

2-4. Reception, 8.266 to 8.745 Mc

(fig. 4-3)

The receiver is of the superheterodyne type and can be tuned manually. It can receive voice, tone-modulated, or continuous-wave (cw) signals.

a. During reception in this range, switch S1 is in the MAN. 8.364 position. Signals from the antenna appear at point A and pass through coupling capacitor C49, through the antenna tuning circuit, which is composed of coil L7 and capacitors C48 and C50, then through contacts 1 and 2 of relay K1. From K1, the path is through transformer T1 and capacitor C29, which make up the input tuned circuit, then to the control grid of mixer V1A. Resistor R1 is the grid-return resistor, and R2 is the screen-grid voltage-dropping resistor. Capacitor C1 is the screen grid bypass. Resistor R3 is the minimum cathode-bias resistor, and capacitor C2 is the cathode bypass. Resistors R18 and R19 form a voltage-divider network for biasing V1 and V2.

b. Colpitts local oscillator V1B generates an RF signal that beats with the signal in V1A and produces a beat frequency of 500 kc. Coil L1 is the oscillator tank coil, and C6 is its tuning capacitor. Capacitors C4 and C5 are for feedback purposes. Resistor R4 is the grid leak, C3 is the grid capacitor, and C5 is the plate bypass. Resistor R5 is the plate-voltage dropping resistor.

c. The 500-kc IF signal is applied to the primary of T2 and induced into the secondary, then applied to the grid of IF amplifier V2. Capacitors C7 and C9 are trimmers. Resistor R6 and capacitor C8 form a plate decoupling circuit for mixer V1A.

d. The signal is amplified and applied to the primary of T3 and induced into the secondary, then applied to detector CR1. Resistor R9, with capacitor C12, forms a decoupling network. Capacitors C13 and C16 are trimmers for T3.

e. Detector CR1 removes the audio intelligence from the IF signal, and applies it, through voltage-divider filter R10, R11, and C18, then through coupling capacitor C19, to the grid of audio amplifier V3A. Capacitor C17 is the detector filter, and R12 is the grid-return resistor. Capacitor C20 is the cathode-bias resistor. The amplified audio signals from the plate circuit are applied across load resistor R15 and to the headset. Capacitor C25 keeps the dc voltage out of the headset. Capacitor C24 is the plate RF bypass. Resistor R16 is the plate decoupling resistor.

f. Bfo V3B comes into use when unmodulated signals are being received. The stage generates a signal that beats with the IF signal to produce an audio signal so that the unmodulated signals can be made audible. Coil L2 is the oscillator tank coil, and C21 is the trimmer capacitor. Capacitor C23 and resistor R14 form a plate decoupling network. Resistor R13 is the grid leak, and C22 is the grid capacitor.

2-5. Manual Transmission, 500 Kc

(fig. 4-3)

a. Oscillator V1B.

(1) During manual transmission at this frequency, switch S1 is in the MAN. 500 position. Crystal-controlled oscillator V1B generates a signal at 500 kc.

(2) When key S2 is closed, the cathode is grounded through contacts 5 and 6 of relay K1,

causing plate current to flow, and oscillations to begin.

(3) Coil L4 is the tank coil, and C36 and C37 are the fixed tuning capacitors. Resistor R26 is the cathode-bias resistor, and capacitor C34 is the bypass.

(4) Resistor R27 is the grid leak, and R28 is the plate decoupling resistor. Capacitor C35 is the crystal loading capacitor.

b. Power Amplifier V5.

(1) The signal is coupled from V1B to V5 by coupling capacitor C38. Capacitor C41 is the cathode bypass, and C42 is the screen-grid bypass. Resistor R30 is the screen-grid voltage-dropping resistor, and capacitor C43 is an audio bypass. Choke L5 is the modulation choke. Resistor R31 and capacitor C44A form a decoupling network.

(2) Coil L11 is the plate shunt-feed choke. Capacitor C45 couples the signal from the plate circuit to the antenna circuit and also keeps dc out of the tuned circuits. Antenna tuning is accomplished by varying variometer L8.

2-6. Manual Transmission, 8.364 Mc
(fig. 4-3)

a. Oscillator V1A.

(1) During manual transmission at this frequency, switch S1 is in the MAN. 8.364 position. Crystal-controlled oscillator V1A generates a signal at 8.364 mc.

(2) When key S2 is closed, the cathode is grounded through contacts 5 and 6 of relay K1, causing plate current to flow and oscillations to begin.

(3) Coil L3 is the tank coil, and C30 and C31 are the fixed tuning capacitors. Resistor R24 is the cathode-bias resistor and C33 is the bypass.

(4) Resistor R25 is the grid leak, and R23 is the plate decoupling resistor. Capacitor C32 is a dc blocking capacitor. Resistor R42 is the loading resistor for crystal Y1.

b. Power Amplifier V5.

(1) Capacitor C40 couples the signal from the output of the oscillator to the input of power amplifier V5. Coil L10 is the grid impedance. Capacitor C41 is the cathode bypass, and R22 is the cathode-bias resistor. Resistor R30 is the screen-grid voltage dropping resistor and C43 is an audio bypass.

(2) Coil L11 is the shunt-feed choke. Capacitor C45 couples the signal from the plate circuit to the antenna circuit and keeps dc out of the tuned circuits. Coil L6 is the tank inductance, and C46 is the tuning capacitor. Capacitor C47 is part of the tuned circuit. Coil L7 is the antenna tuning coil, C48 is part of the tuned circuit, and C50 is a compensating capacitor. Coupling to the antenna is accomplished by C49.

2-7. Modulator Section
(fig. 4-3)

The modulator section, which consists of V6A and V6B, screen-grid modulates power amplifier V5 with a 550-cycle tone.

a. Audio Oscillator V6B.

(1) Resistors R37, R38, and R39 are phase-shift resistors. Capacitors C52, C53, C54, and C55 are phase-shift capacitors.

(2) Resistor R35 is the cathode-bias resistor, and resistor R36 is the grid return. Resistor R32 is the plate voltage-dropping resistor.

b. Modulator V6A.

(1) Capacitor C51 couples the signal from V6B to the grid of V6A. Resistor R41 is part of a voltage divider which includes grid-return resistor R33.

(2) Resistor R34 is the cathode-bias resistor. The output of V6A is applied to rf power amplifier V5 to modulate the screen grid.

2-8. Power Supply
(fig. 4-3)

All power for operating the radio set is supplied by the hand-cranked generator and is regulated by voltage regulator VR1.

a. Generator G1.

(1) *High-voltage circuit.* The output is 425 volts dc at 50 milliamperes (ma). Capacitors C26 and C27 are filter capacitors. Coil L12 is the filter choke.

(2) *Low-voltage circuit.* The output is 6.3 volts dc at 2.25 amperes. Capacitors C28, C57, and C58 are filter capacitors.

b. Voltage Regulator VR1.

(1) The generator outputs are kept at a predetermined level by VR1. The solenoid causes the fingers to make and break contact and keeps the proper amount of resistance in the circuits, regardless of the cranking speed.

(2) Potentiometer R17 adjusts the voltage output to the desired level.

2-9. Automatic Transmission

During automatic transmission, switch S1 is in the AUTO position. Both transmitters operate as they do during manual operation, but they are controlled by the keyer, which consists of the cam, code disk, and switch S4.

a. Cam (fig. 2-2). The cam is driven at one-quarter revolution per minute (rpm) by the 2-rpm motor through gears. The cathodes of transmitter oscillators V4A and V4B are grounded and ungrounded alternately by switch S4, which shifts the output between 500 kc and 8.364 mc.

b. Code Disk (fig. 2-2). While the output frequency is being changed by S4 through the action of the cam, the cathodes of power amplifier V5 and modulator V6A are being keyed by the code disk. The surface of the code disk contains two sets of tracks, one inside the other. The outer track represents six auto-alarm dashes, each 4 seconds long, with 1-second intervals. The inner track represents six SOS signals. The copper surface of the cam is so arranged that the switching between the two tracks causes transmission of a 30-second direction-finding dash once each cycle. Potentiometer R40 is the keyer (cam and code disk) speed adjustment. The code disk is driven directly by the motor at 2 rpm.

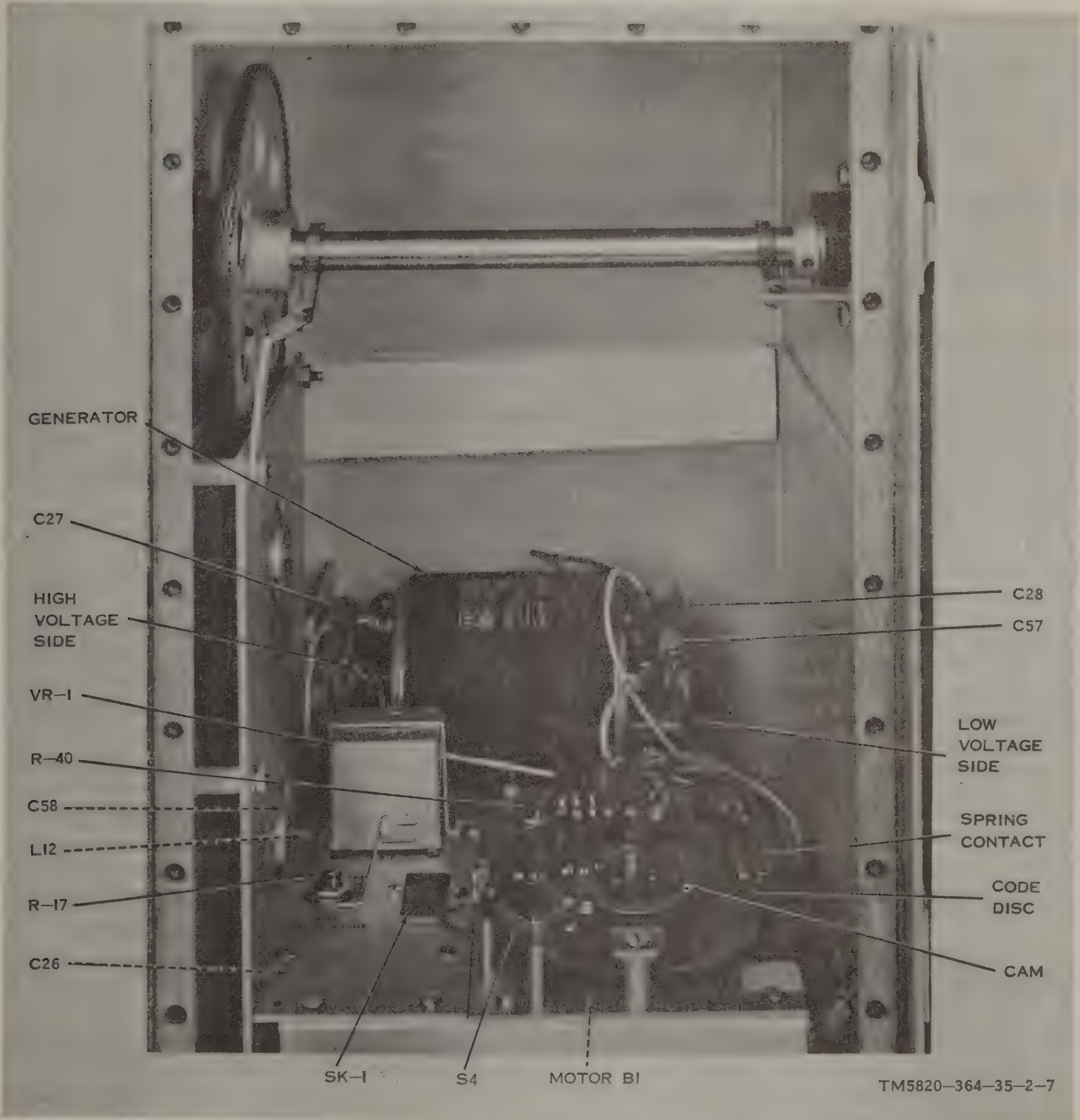


Figure 2-2. Generator, voltage regulator and keyer.

CHAPTER 3

DIRECT AND GENERAL SUPPORT MAINTENANCE

Section I. TROUBLESHOOTING

3-1. General Troubleshooting Information

a. Troubleshooting Radio Set AN/SRC-6A at direct support and general support includes all the techniques outlined for organizational maintenance and any special or additional techniques required to isolate a defective part. These procedures are not complete in themselves, but supplement the procedures described in organizational maintenance.

b. The systematic troubleshooting procedure, which begins with the operational checks performed at the organizational category, must be completed by sectionalization, localization, and isolation.

3-2. Troubleshooting Procedures

Note. For parts location, refer to figure 3-1 through 3-4.

a. General. To be effective, troubleshooting must be performed before a fault will be rerational checks, observations, and measurements must be performed before a fault will be revealed. The fault must first be traced to a transmitter or receiver, then to a particular section, then to a defective part. Some faults, such as burned-out resistors or transformers, can often be located by sight, smell, and hearing. The majority of faults, however, must be localized by checking voltages and resistances. The sequence of steps is referred to as sectionalization, localization, and isolation of trouble.

b. Sectionalization. Recognition of abnormalities in operation will help to sectionalize the area of trouble as follows:

(1) If reception is abnormal, determine which frequency range is affected.

(2) If the 492- to 508-kc operation is abnormal, refer to A, figure 2-1.

(3) If the 8.266- to 8.745-mc operation is abnormal, refer to B, figure 2-1.

(4) If transmission is abnormal, determine which frequency is affected.

(5) If the 500-kc circuit is abnormal, refer to C, figure 2-1.

(6) If the 8.364-mc circuit is abnormal, refer to D, figure 2-1.

(7) If automatic transmission is abnormal, refer to E, figure 2-1.

c. Localization. Localization can be accomplished in some cases by using the OPERATION SELECTOR switch. For example, if the 8.266- to 8.745-mc receiver is inoperative, set the switch to MAN. 500. If the 492- to 508-kc receiver is operative, the trouble is in oscillator V1B stage because all the other tubes are common to both frequency ranges.

d. Isolation. After the trouble has been localized to a stage, use voltage and resistance measurements to isolate the defective part. Use charts 3-1 through 3-5 for normal indications to compare with those obtained in the troubleshooting procedures.

e. Intermittent Troubles. In all these tests, the possibility of intermittent troubles should not be overlooked. If present, this type of trouble often can be made to reappear by tapping or jarring the equipment.

3-3. Resistance Measurements at Tube Sockets (fig. 3-1, 3-2)

Chart 3-1 shows the resistances between the tube socket terminals and chassis. When checking V4, V5, and V6, the key must be closed.

Chart 3-1. Resistance Measurements

Tube	Socket pin No.	Setting of OPERATION SELECTOR switch			
		MAN. 500	AUTO	MAN. 8.364	TEST
V1 (6U8)	1	Inf	Inf	Inf	Inf
	2	4.7K	Inf	Inf	Inf
	3	Inf	Inf	Inf	Inf
	4	0	0	0	0
	5	0	0	0	0
	6	Inf	Inf	Inf	Inf
	7	Inf	Inf	Inf	Inf
	8	Inf	Inf	Inf	Inf
	9	33K	33K	33K	33K
V2 (6BJ6)	1	0	0	0	0
	2	Inf	Inf	Inf	Inf
	3	0	0	0	0
	4	0	0	0	0
	5	Inf	Inf	Inf	Inf
	6	Inf	Inf	Inf	Inf
	7	Inf	Inf	Inf	Inf
V3 (12AT7)	1	Inf	Inf	Inf	Inf
	2	Inf	Inf	Inf	Inf
	3	Inf	Inf	Inf	Inf
	4	0	0	0	0
	5	0	0	0	0
	6	Inf	Inf	Inf	Inf
	7	33K	33K	33K	33K
	8	Inf	Inf	Inf	Inf
V4 (12AT7)	1	Inf	Inf	Inf	Inf
	2	27K	27K	27K	27K
	3	Inf	Inf	220 ohms	Inf
	4	0	0	0	0
	5	0	0	0	0
	6	Inf	Inf	Inf	Inf
	7	27K	27K	27K	27K
	8	220 ohms	Inf	Inf	Inf
V5 (6AQ5)	1	33K	33K	33K	33K
	2	120 ohms	Inf	120 ohms	10K
	3	0	0	0	0
	4	0	0	0	0
	5	Inf	Inf	Inf	Inf
	6	Inf	Inf	Inf	Inf
	7	33K	33K	33K	33K
V6 (12AT7)	1	Inf	Inf	Inf	Inf
	2	Inf	Inf	Inf	Inf
	3	6.8K	Inf	6.8K	Inf
	4	0	0	0	0
	5	0	0	0	0
	6	Inf	Inf	Inf	Inf
	7	Inf	Inf	Inf	Inf
	8	330 ohms	Inf	Inf	Inf

Note. Resistance readings were taken with a 1,000-ohm-per-volt meter.

Note. All readings are subject to 20% maximum variation from tabulated values.

Note. Measurements are made with tubes in place, generator cable plug PLI removed from the socket, and the VOLUME control fully clockwise.

Note. Values different from those tabulated above may be obtained with meters other than a 1,000-ohm-per-volt meter.

3-4. Voltage Measurements at Tube Sockets (fig. 3-2)

a. Receiver Voltage Measurements, Hand-cranked Power. Chart 3-2 shows the voltages present at the receiver tube socket terminals while operating voltages are provided by cranking at 60 rpm with the KEY open.

Chart 3-2. Receiver Voltage Measurements, Handcranked Power

Tube	Socket pin No.	Setting of OPERATION SELECTOR switch MAN. 500	 MAN. 8.364
V1 (6U8)	1	400	65
	2	0	0
	3	120	120
	4	6.5	6.5
	5	0	0
	6	200	200
	7	3	3.5
	8	[a]	0
	9	0	–0.5
V2 (6BJ6)	1	0	0
	2	1.5	1.5
	3	6.5	6.5
	4	0	0
	5	215	215
	6	110	110
	7	1.5	1.5
	8	–	–
	9	–	–
V3 (12AT7)	1	65	65
	2	0	0
	3	0	0
	4	6.5	6.5
	5	6.5	6.5
	6	175	75
	7	0	0
	8	0	0
	9	0	0

[a] Not significant.

Note. Tabulated voltages were measured on a 1,000-ohm-per-volt meter.

Note. All voltages are subject to 20% variation from tabulated values.

Note. Voltages are measured with the VOLUME control fully clockwise.

Note. All voltages are positive except where otherwise indicated.

b. Transmitter Voltage Measurements, Handcranked Power. Chart 3-3 shows the voltages present at the transmitter tube socket terminals while operating voltages are provided by cranking at 60 rpm with the KEY closed.

Chart 3-3. Transmitter Voltage Measurements, Handcranked Power

Tube	Socket pin No.	Setting of OPERATION SELECTOR switch MAN. 500	 MAN. 8.364
V4 (12AT7)	1	400	225
	2	0	–12[b]
	3	[a]	2
	4	6.5	6.5
	5	6.5	6.5
	6	225	400
	7	–12[b]	0
	8	2	[a]
	9	0	0
V5 (6AQ5)	1	–30[b]	–30[b]
	2	5	5
	3	0	0
	4	6.5	6.5
	5	425	425
	6	160	160
	7	–30[b]	–30[b]
	8	–	–
	9	–	–
V6 (12AT7)	1	150	150
	2	0	0
	3	3.5	3.5
	4	6.5	6.5
	5	6.5	6.5
	6	320	320
	7	0	0
	8	3	3
	9	0	0

[a] Not significant.

[b] Meter capacity may disable oscillator. Use Multimeter ME-26A/U or equivalent.

Note. Tabulated voltages were measured on a 1,000-ohm-per-volt meter.

Note. All voltages are subject to 20% variation from tabulated values.

Note. Voltages are measured with VOLUME control fully clockwise.

Note. All voltages are positive except where otherwise indicated.

c. Receiver Voltage Measurements, 6-Volt Battery Powered. Chart 3-4 shows the voltage present at the receiver tube socket terminals with a 6-volt battery for power and with the KEY open. Instead of cranking at 60 rpm, personnel can connect a 6-volt storage battery to the AUX. POWER TEST receptacle. The battery causes the low-voltage side of the generator to operate as a motor to drive the high-voltage side. This procedure is more convenient when bench testing and troubleshooting.

Chart 3-4. Receiver Voltage Measurements, 6-volt Battery Powered

Tube	Socket pin No.	Setting of OPERATION SELECTOR switch MAN. 500	 MAN. 8.364
V1 (6U8)	1	150	50
	2	0	0
	3	75	75
	4	6	6
	5	0	0
	6	160	160
	7	2.5	2.5
	8	[a]	0
	9	0	–0.5

Chart 3-4. Receiver Voltage Measurements, 6-Volt Battery Powered—Continued

Tube	Socket pin No.	Setting of OPERATION SELECTOR switch	
		MAN. 500	MAN. 8.364
V2 (6BJ6)	1	0	0
	2	1	1
	3	6	6
	4	0	0
	5	140	140
	6	75	75
	7	1	1
	8	–	–
	9	–	–
V3 (12AT7)	1	40	40
	2	0	0
	3	0	0
	4	6	6
	5	6	6
	6	125	65
	7	0	0
	8	[a]	0
	9	0	0

[a] Not significant.

Note. Tabulated voltages were measured on a 1,000-ohm-per-volt meter.

Note. All voltages are subject to 20% variation from tabulated values.

Note. Voltages are measured with the VOLUME control fully clockwise.

Note. All voltages are positive except where otherwise indicated.

d. Transmitter Voltage Measurements, 6-Volt Battery Powered. Chart 3-5 shows the voltage measurements present at the transmitter tube sockets while using a 6-volt storage battery for power with the key closed.

Chart 3-5. Transmitter Voltage Measurements, 6-Volt Battery Powered

Tube	Socket pin No.	Setting of OPERATION SELECTOR switch	
		MAN. 500	MAN. 8.364
V4 (12AT7)	1	320	180
	2	0	–10[b]
	3	[a]	1.5
	4	6	6
	5	6	6
	6	180	320
	7	–10[b]	0
	8	1.5	[a]
	9	0	0
V5 (6AQ5)	1	–25[b]	–25[b]
	2	3	3
	3	0	0
	4	6	6
	5	340	340
	6	120	120
	7	–25[b]	–25[b]
	8	–	–
	9	–	–
V6 (12AT7)	1	80	80
	2	0	0
	3	2	2
	4	6	6
	5	6	6
	6	240	240
	7	0	0
	8	1.7	1.7
	9	0	0

[a] Not significant.

[b] Meter capacity may disable oscillator. Use Multimeter ME-26A/U, or equivalent.

Note. Tabulated voltages were measured on a 1,000-ohm-per-volt meter.

Note. All voltages are subject to 20% variation from tabulated values.

Note. Voltages are measured with the VOLUME control fully clockwise.

Note. All voltages are positive except where otherwise indicated.

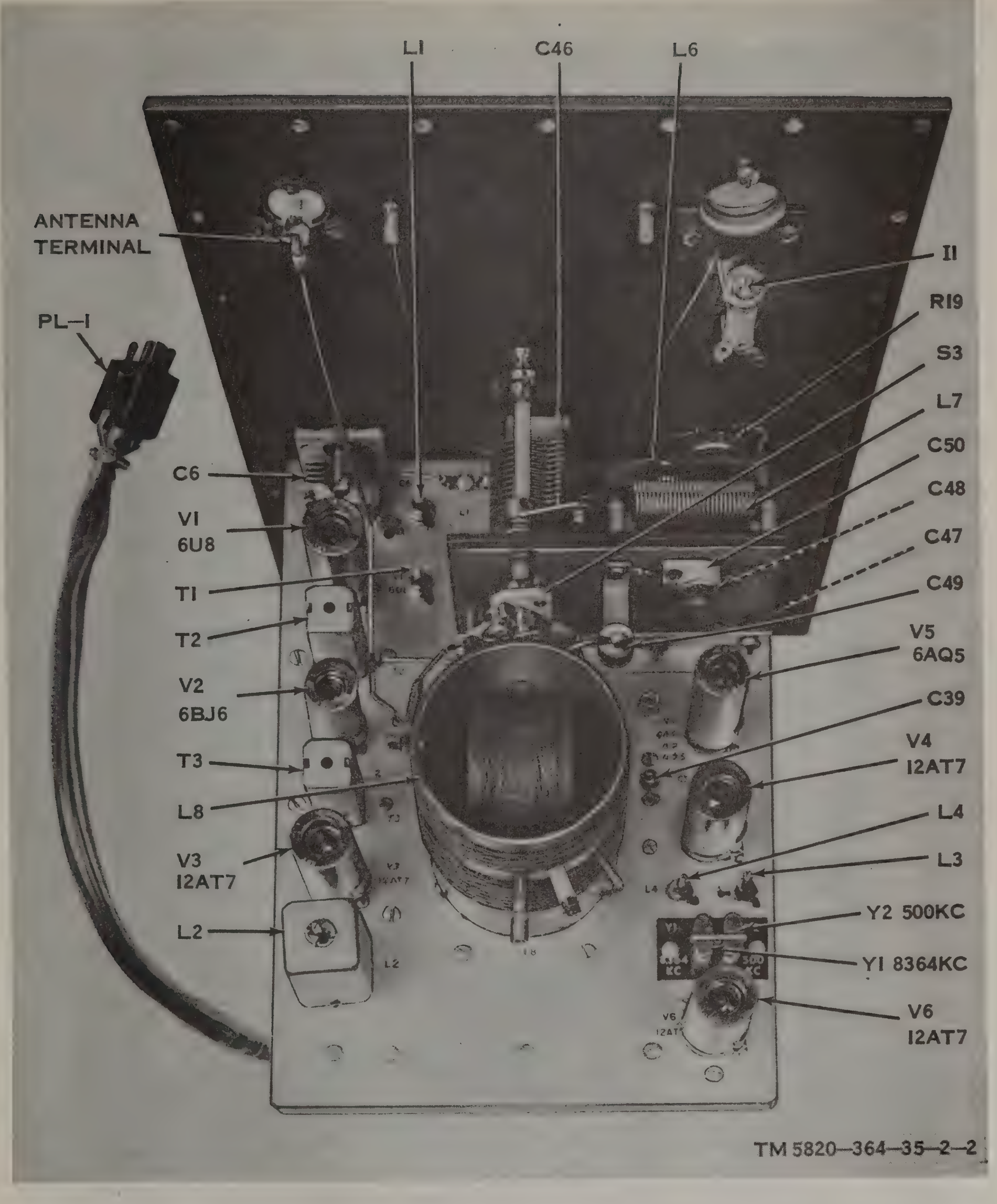


Figure 3-1. Top view, parts location.

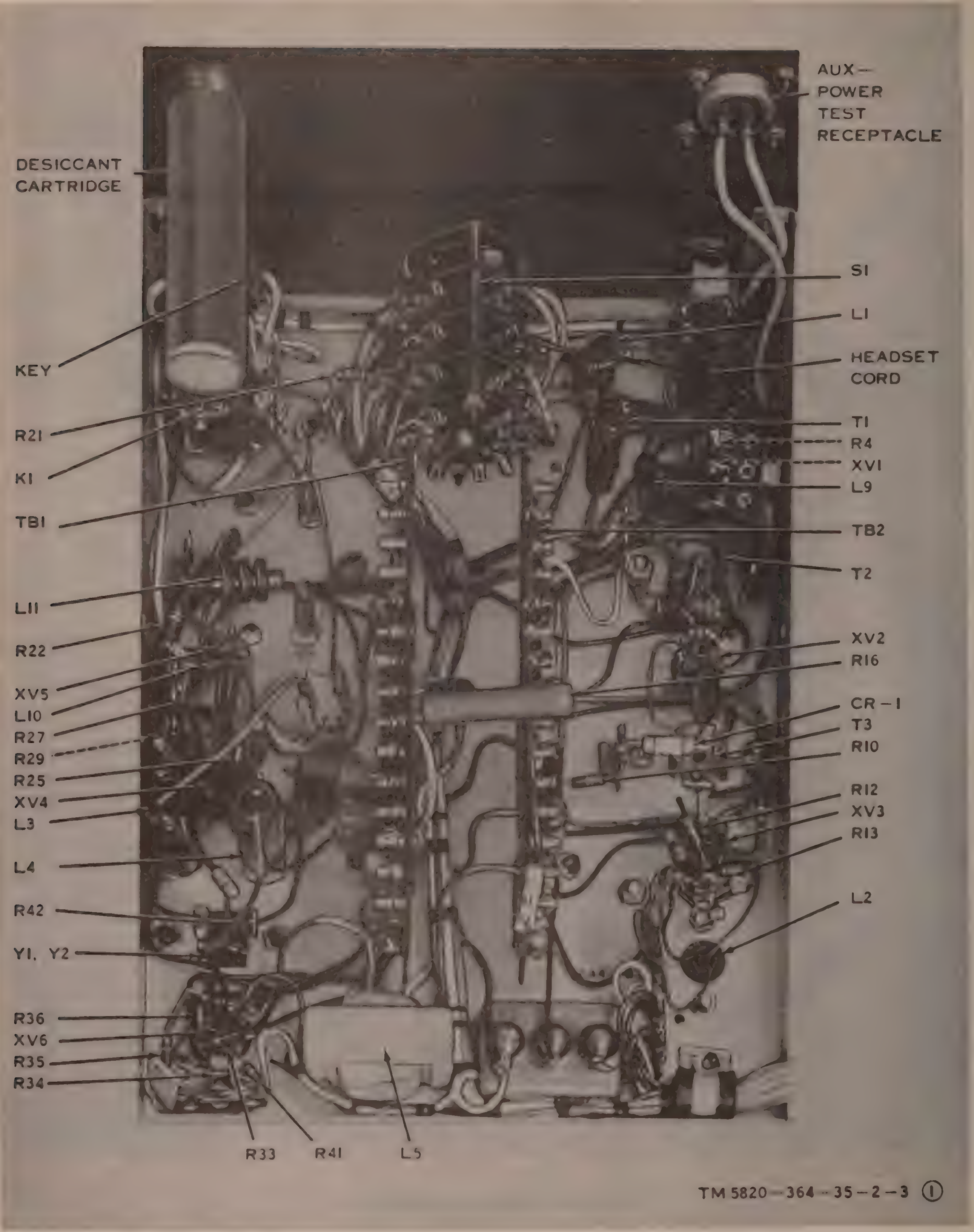
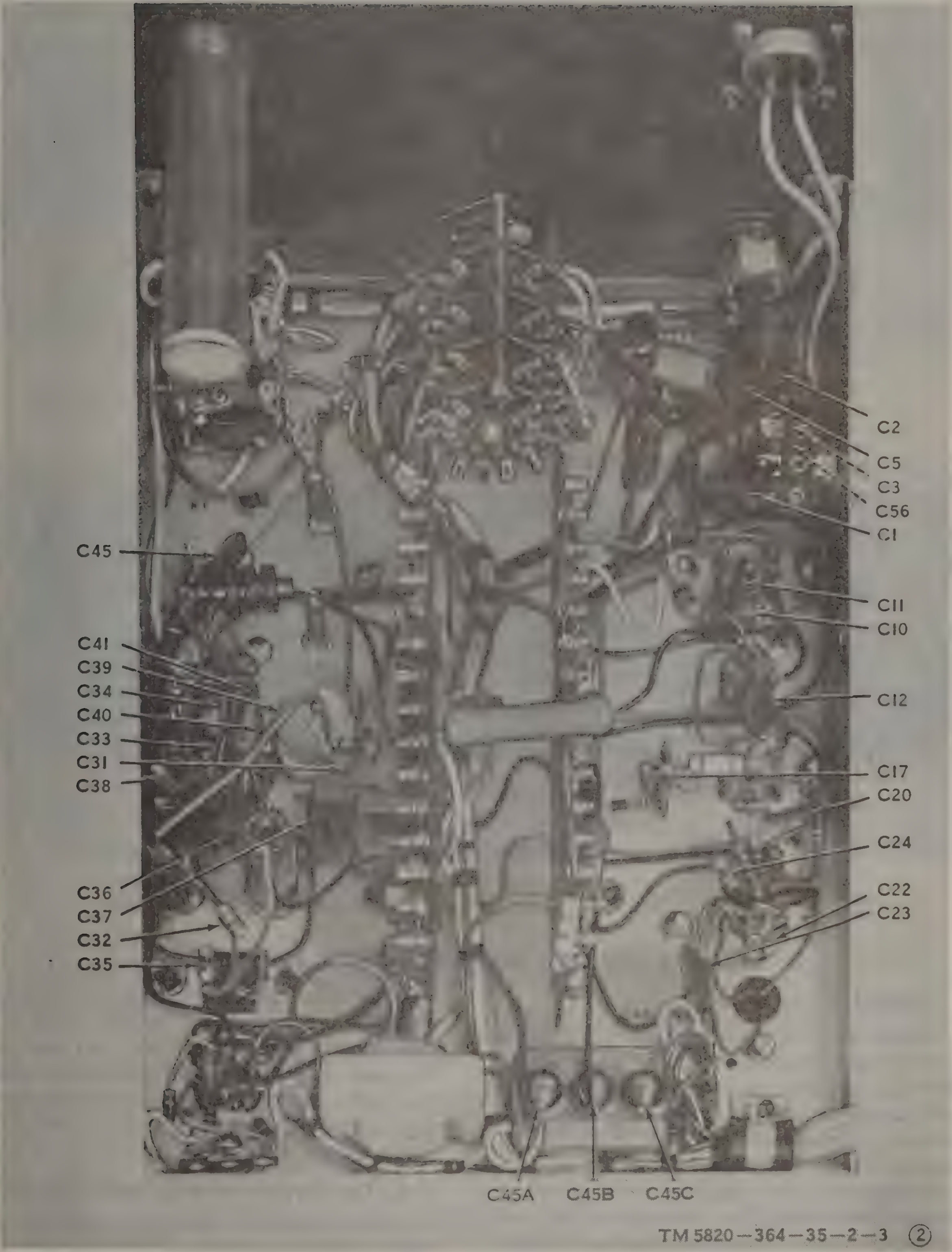


Figure 3-2(1). Bottom view, parts location.



TM 5820—364—35—2—3 ②

Figure 3-2(2). Bottom view, parts location.

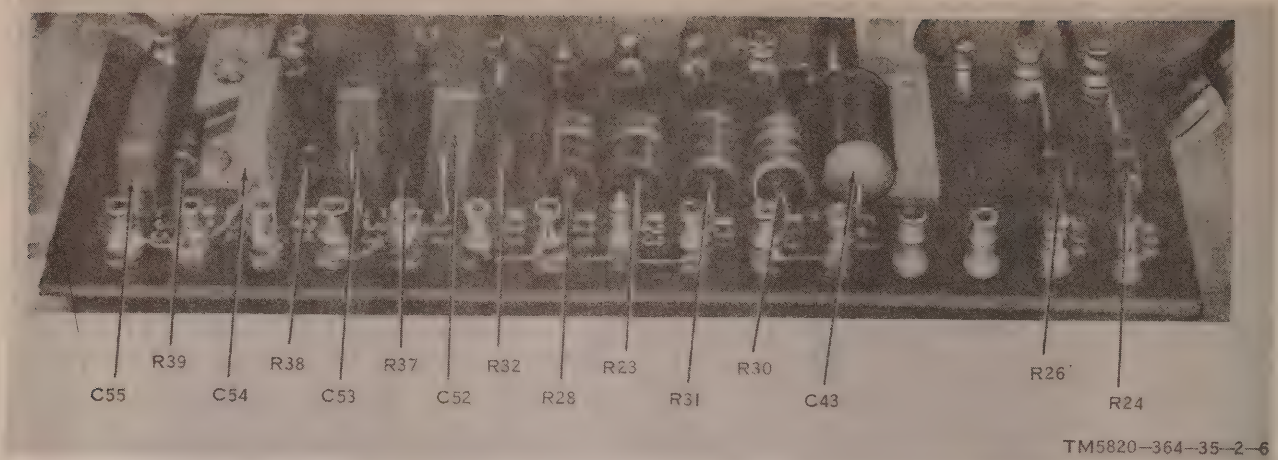


Figure 3-3. Terminal board TBI, parts location.

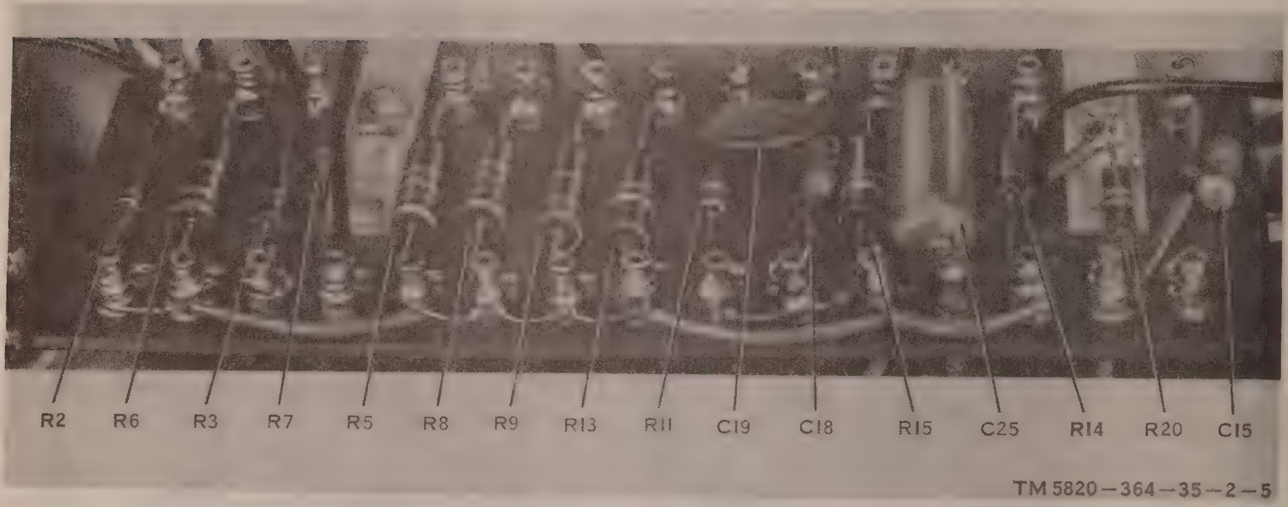


Figure 3-4. Terminal board TB2, parts location.

Section II. GENERAL SUPPORT TESTING PROCEDURES

3-5. General

a. Testing procedures are prepared for use by electronics field maintenance shops and electronics service organizations responsible for general support maintenance of electronics equipment to determine the acceptability of repaired electronic equipment. These procedures set forth the specific requirements that repaired electronic equipment *must* meet before it is returned to the using organization. These procedures may also be used as a guide for testing equipment that has been repaired at the direct support category if the proper tools and test equipments are available. A summary of the performance standards is given in paragraph 3-10.

b. Comply with the instructions preceding each chart before proceeding to the chart. Perform each step in sequence. Do not vary the sequence. For each step, perform all the actions required in the *Control settings* columns; then perform each specific test procedure and verify it against its performance standard.

3-6. Test Equipment and Tools Required

All test equipment required to perform the testing procedures given in this section are listed in chart 3-6 and are authorized under TA 11-17, Signal Field Maintenance Shops, and TA 11-100 (11-17), Allowances of Signal Corps Expendable Supplies for Signal Field Maintenance Shop, Continental United States.

Chart 3-6. Test Equipment

Nomenclature	Federal stock No.	Technical manual
Electric Light Assembly MX-1292/PAQ.	6695-378-5449	TM 11-5540
RF Signal Generator AN/URM-25F.	6625-643-1548	TM 11-5551E
Output Meter TS-585B/U	6625-243-0562	TM 11-5017
Artificial Antenna MR 107-7 (P/O AN/SRC-6A).		

a. Tools. The tools required are contained in Tool Kit, Radar and Radio Repairman TK-87/U.

b. Test Facilities. A 6-volt storage battery, capable of supplying 20 amperes, is required to operate the radio set, instead of the cranking operation that supplies power when operating from a lifeboat. If an ac-operated power supply is available and has the required capacity, it can be used in the shop.

3-7. Physical Tests and Inspections

a. Test Equipment and Materials. Electric Light Assembly MX-1292/PAQ is required.

b. Test Connections and Conditions. Remove the radio set from its case. No test connections are necessary.

Chart 3-7. Physical Test and Inspection Procedure

Step No.	Control settings		Test procedure	Performance standard
	Test equipment	Equipment under test		
1	N/A.	Controls may be in any position	*a.* Inspect all controls and mechanical assemblies for missing screws or nuts. *b.* Inspect connectors, sockets, and receptacles for looseness and damage.	*a.* Screws and nuts are tight; none missing. *b.* No losseness or damage evident.
2	N/A.	Controls may be in any position	*a.* Turn the OPERATION SELECTOR switch through its 4 positions. *b.* Turn the REC. TUNING, VOLUME, ANT. TUNING 500 KC, and ANT. TUNING 8.364 MC controls throughout their ranges.	*a.* Switch operates freely and without binding. *b.* Controls operate smoothly and without binding.
3		Controls may be in any position	Operate KEY	KEY is easy to depress and returns to its original position when released.
4		Controls may be in any position	Operate cranks through several revolutions.	Cranks operate smoothly, and there is no binding.
5	*MX-1292/PAQ* Connect mercury-vapor lamp. Install wide transmission filter in mercury-vapor lamp.	Controls may be in any position	Turn on mercury-vapor lamp (switch labeled 245 V for M.V. LAMP), and expose the portion of the equipment that has been repaired and disturbed, to the direct rays of the lamp while inspecting the condition of the moistureproofing and fungiproofing (MFP) varnish. *Note.* MFP varnish will appear blue-gray. *Note.* There should be no MFP varnish on switch contacts, variable capacitor plates, or coils.	All repaired or disturbed electrical components and chassis surfaces are covered. *Note.* Equipments that have had no previous MFP treatment do not require MFP treatment during general support repair.
6	N/A.	Controls may be in any position	Check the equipment for applicable modification work orders. (See paragraph 2-2, TM 11-5820-364-12-2 for a list of MWO's and markings.)	None.

3-8. Receiver Sensitivity Tests
(fig. 3-5)

a. Test Equipment and Materials.
(1) R.F. Signal Generator AN/URM-25F.
(2) Output Meter TS-585B/U.

b. Test Connections and Conditions. Connect the equipment as shown in figure 3-5.

Chart 3-8. Receiver Sensitivity Test Procedure

Step No.	Control settings		Test procedure	Performance standard
	Test equipment	Equipment under test		
1	*AN/URM-25F* ATTENUATOR: 100 MICROVOLTS: MAX (fully clockwise) FUNCTION SWITCH: 400 % MOD AUDIO OUT LEVEL: Fully counterclockwise SET RF OUTPUT: Fully counterclockwise BAND SWITCH: 220-800 *TS-585B/U* Impedance control: 600 Meter multiplier: 1	VOLUME control: Fully clockwise OPERATION SELECTOR: MAN. 500	*a.* Set the AN/URM-25F POWER switch to ON. *b.* Turn the AN/URM-25F TUNING control to 500 kc. *c.* Turn the AN/URM-25F % MOD AUDIO OUT LEVEL control for an indication of 30 on the % MOD scale on the AN/URM-25F. *d.* Adjust the AN/URM-25F MICROVOLTS control until the TS-585B/U meter indicates 10 milliwatts.	*a.* None. *b.* None. *c.* None. *d.* The AN/URM-25F meter should indicate no more than 100 microvolts.
2	Same as step No. 1, except: *AN/URM-25F* BAND SWITCH: 5.8-10	Same as step No. 1, except: OPERATION SELECTOR switch: MAN. 8.364	Same as step No. 1, except: *b.* Turn the AN/URM-25F TUNING control to 8.364 mc. Adjust the AN/SRC-6A REC. TUNING to produce a peak indication on the TS-585B/U meter. *d.* Adjust the AN/URM-25F MICROVOLTS control until the TS-585B/U meter indicates 10 milliwatts.	Same as step No. 1, except: *b.* None. *d.* The AN/URM-25F meter should indicate no more than 200 microvolts.

3-9. Transmitter Output Tests
(fig. 3-6)

a. *Test Equipment and Materials.* Artificial Antenna Mr 107-7 (part of the AN/SRC-6A) is required.

b. *Test Connections and Conditions.* Connect the equipment as shown in figure 3-6.

Chart 3-9. Transmitter Output Test Procedure

Step No.	Control settings		Test procedure	Performance standard
	Test equipment	Equipment under test		
1	*Mr 107-7* None.	OPERATION SELECTOR switch: MAN. 500 KEY: Hold down	Adjust ANT. TUNING 500KC control for maximum output.	TUNING INDICATOR lamp on the AN/SRC-6A glows brightly.
2	Same as step No. 1.	Same as step No. 1, except: OPERATION SELECTOR switch: MAN. 8.364	Adjust ANT. TUNING 8.364 for maximum output.	Same as step No. 1.
3	Same as step No. 1.	OPERATION SELECTOR switch: AUTO KEY: Up	Check keyer output	TUNING INDICATOR lamp glows on and off in accordance with the position of the code disk and the cam.

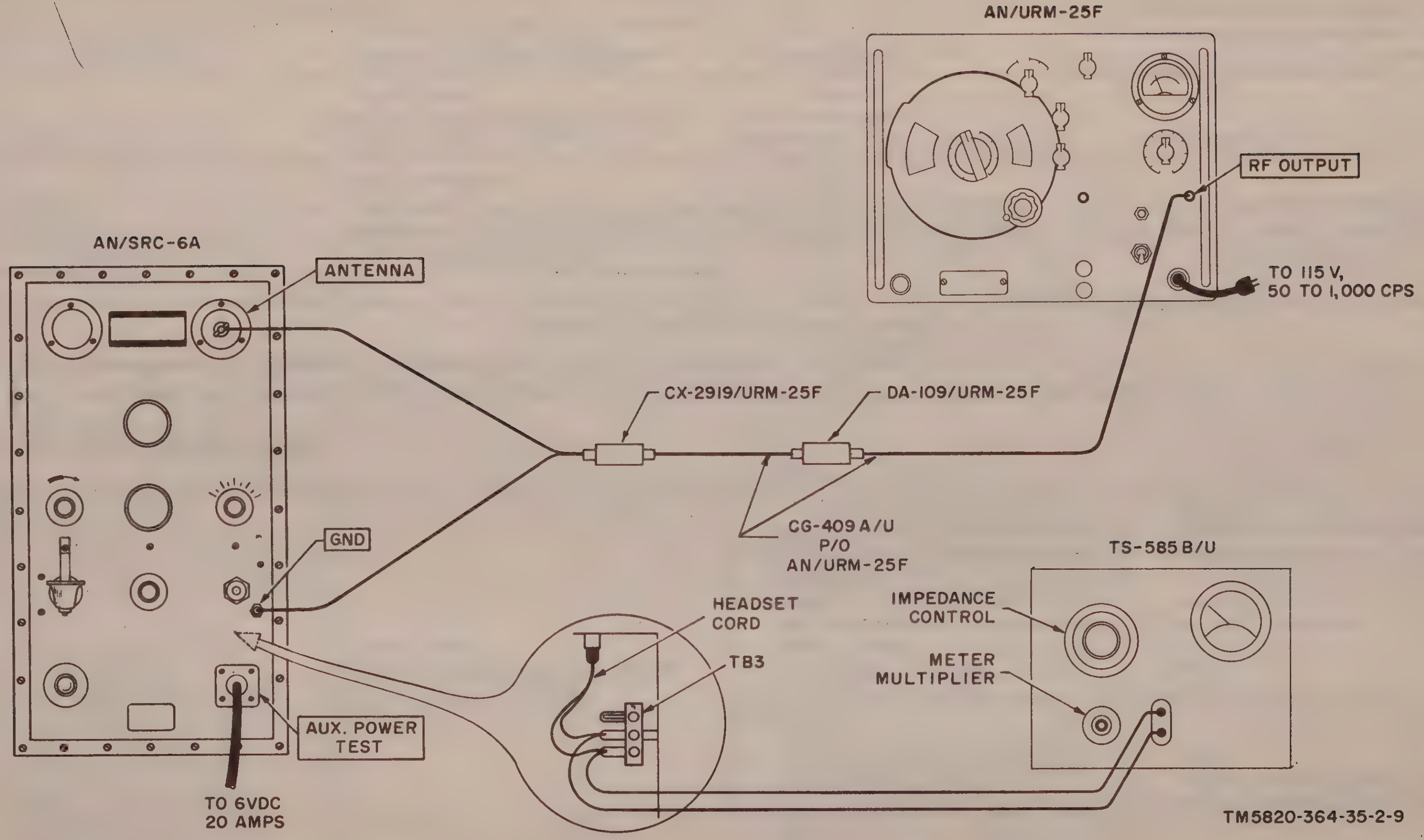


Figure 3–5. Receiver sensitivity tests, test connections.

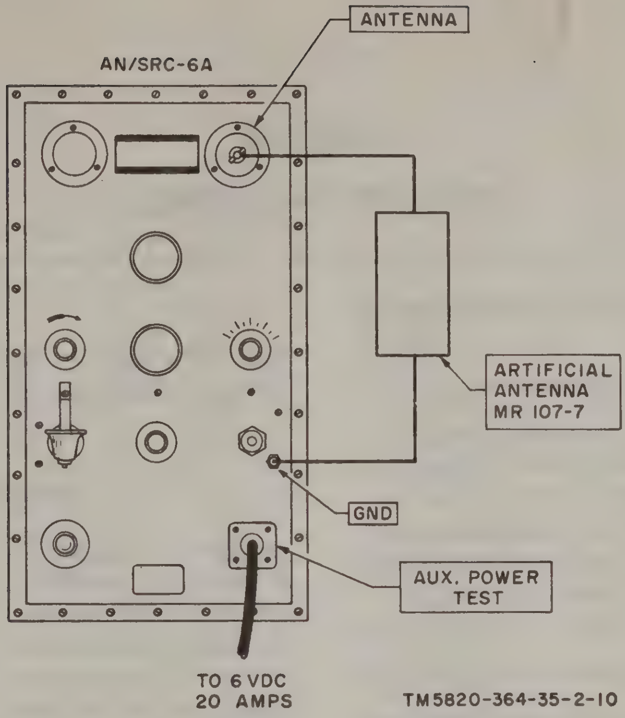


Figure 3-6. Transmitter output tests, test connections.

3-10. Summary of Test Data

Personnel may find it convenient to arrange a check list similar to that shown below.

RADIO SET AN/SRC-6A

	Performance standard
1. RECEIVER SENSITIVITY	
a. 500 kc	The receiver must provide 10 milliwatts output with a maximum of 100 microvolts input signal.
b. 8.364 mc	The receiver must provide 10 milliwatts output with a maximum of 200 microvolts input signal.
2. TRANSMITTER OUTPUT	
a. 500 kc	The TUNING INDICATOR glows on and off as key is operated, or as keyer is actuated during automatic operation.
b. 8.364 mc	The TUNING INDICATOR glows on and off as key is operated, or as keyer is actuated during automatic operation.

CHAPTER 4

DEPOT MAINTENANCE

4-1. General

Complete rebuild and overhaul of Radio Set AN/SRC-6A is accomplished at the depot maintenance category.

4-2. Maintenance Procedures

a. Rebuild procedures will include all repairs, replacement, and testing operations necessary to make the equipment suitable for return to the using organization as equipment equivalent to new material. Detailed procedures for accomplishing repair and adjustment of the equipment will be established by the facility performing the work.

b. Additional maintenance information in the form of a schematic diagram, block diagrams, and parts location illustrations is furnished in this manual.

4-3. Depot Overhaul Standards

a. Depot overhaul standards (DOS) are standards which the equipment must meet after repairs are made. Equipments meeting these standards are considered to be in as good operating condition as new equipment.

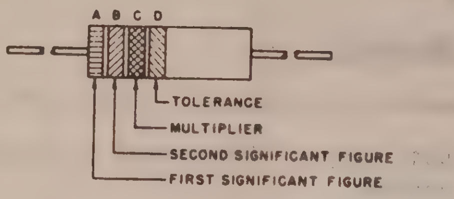
b. DOS tests are the same as the general support testing procedures described in chapter 3.

4-4. Applicable References

Applicable procedures of the depots performing these tests and the general standards for repaired electronic equipment given in TB SIG 355-1, TB SIG 355-2, and TB SIG 355-3 form a part of the requirements for testing this equipment.

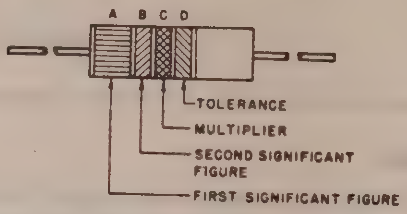
COLOR CODE MARKING FOR MILITARY STANDARD RESISTORS

COMPOSITION-TYPE RESISTORS



BAND A—Equal Width Band Signifies Composition-Type

WIREWOUND-TYPE RESISTORS



BAND A—Double Width Signifies Wire-wound Resistor

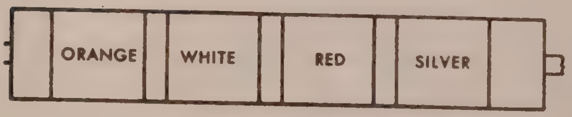
COLOR CODE TABLE

BAND A		BAND B		BAND C		BAND D*	
COLOR	FIRST SIGNIFICANT FIGURE	COLOR	SECOND SIGNIFICANT FIGURE	COLOR	MULTIPLIER	COLOR	RESISTANCE TOLERANCE (PERCENT)
BLACK	0	BLACK	0	BLACK	1		
BROWN	1	BROWN	1	BROWN	10		
RED	2	RED	2	RED	100		
ORANGE	3	ORANGE	3	ORANGE	1,000		
YELLOW	4	YELLOW	4	YELLOW	10,000	SILVER	± 10
GREEN	5	GREEN	5	GREEN	100,000	GOLD	± 5
BLUE	6	BLUE	6	BLUE	1,000,000		
PURPLE (VIOLET)	7	PURPLE (VIOLET)	7				
GRAY	8	GRAY	8	SILVER	0.01		
WHITE	9	WHITE	9	GOLD	0.1		

EXAMPLES OF COLOR CODING

BAND

A B C D*



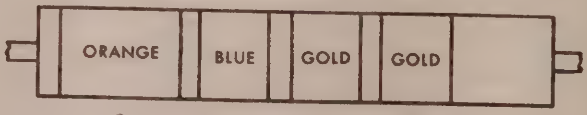
3 9 X100 ± 10%

NOMINAL RESISTANCE 3,900 Ohms

RESISTANCE TOLERANCE ± 10 percent

BAND

A B C D*



3 6 X0.1 ± 5%

3.6 Ohms

± 5 percent

*If Band D is omitted, the resistor tolerance is ±20%, and the resistor is not Mil-Std.

STD-R2

Figure 4–1. Color code marking for MIL–STD resistors.

APPENDIX A

REFERENCES

Following is a list of applicable references that should be available to the DS, GS, and depot maintenance personnel of Radio Set AN/SRC-6A:

DA Pam 310-4	Index of Technical Manuals, Technical Bulletins, Supply Manuals (types 7, 8, and 9), Supply Bulletins, and Lubrication Orders.
DA Pam 310-7	U. S. Army Equipment Index of Modification Work Orders.
TB SIG 355-1	Depot Inspection Standard for Repaired Signal Equipment.
TB SIG 355-2	Depot Inspection Standard for Refinishing Repaired Signal Equipment.
TB SIG 355-3	Depot Inspection Standard for Moisture and Fungus Resistant Treatment.
TM 11-5017	Output Meters TS-585A/U, TS-585B/U, TS-585C/U, and TS-585D/U (TO 33A1-7-23-1).
TM 11-5540	Electric Light Assembly MX-1292/PAQ.
TM 11-5551E	R.F. Signal Generator AN/URM-25F.
TM 11-5820-364-12-2	Operator's and Organizational Maintenance Manual: Radio Set AN/SRC-6A.
TM 11-6625-200-15	Operator, Organizational, DS, GS, and Depot Maintenance Manual: Multimeters ME-26A/U, ME-26B/U, ME-26C/U, and ME-26D/U.
TM 38-750	Army Equipment Record Procedures.

APPENDIX B

DS, GS, AND DEPOT REPAIR PARTS

Section I. INTRODUCTION

B-1. Scope

This appendix contains a list of repair parts required for the performance of direct support, general support, and depot maintenance for Radio Set AN/SRC-6A.

Note. No special tools, test, and support equipment are required.

B-2. General

The repair parts list is divided into the following sections:

a. Repair Parts for Direct Support, General Support and Depot Maintenance, Section II. Repair parts authorized for direct support, general support, and depot maintenance are included in this section.

b. Federal Stock Number Cross-Reference to Figure and Item Number or Reference Designation, Section III. This is a cross-reference index of Federal stock numbers to figure numbers and reference designations.

c. Reference Designation Cross-Reference to Page Number, Section IV. This is a cross-reference index of reference designation to page numbers.

B-3. Explanation of Columns

An explanation of the columns is given below.

a. Source, Maintenance, and Recoverability Codes (SMR) Column. This column lists the applicable SMR codes for the part.

(1) *Source Code (S).* The selection status and source for the listed item is noted here. Source codes and their explanations are as follows:

Code	Explanation
P —	Applies to repair parts that are stocked in or supplied from the GSA/DSA, or Army supply system, and authorized for use at indicated maintenance categories.
G —	Applies to major assemblies that are procured with PEMA funds for initial issue only to be used as exchange assemblies at DSU and GSU category. These assemblies will not be stocked above DSU and GSU category or returned to depot supply category.

(2) *Maintenance code (M).* The lowest category of maintenance authorized to install the listed item is noted here.

Code	Explanation
C	Operator/Crew
O	Organizational Maintenance
F	Direct Support Maintenance
H	General Support Maintenance

(3) *Recoverability code (R).* The information in this column indicates whether unserviceable items should be returned for recovery or salvage. Recoverability code and its explanation is as follows:

Note. When no code is indicated in the recoverability column, the part will be considered expendable.

Code	Explanation
R —	Applies to repair parts and assemblies which are economically repairable at DSU and GSU activities and normally are furnished by supply on an exchange basis.

b. Federal Stock Number Column. The Federal stock number for the item is listed in this column.

c. Description Column. This column includes the Federal item name and any additional description of the item required, the manufacturer's part number (reference number), and the applicable five-digit Federal Supply Code for Manufacturers (para D-5). Usable on code column is not used.

d. Unit of Measure Column. The unit used as a basis of measure (e.g., ea, pr, ft, yd, etc) is indicated in this column.

e. Quantity Incorporated in Unit Column. The quantity of repair parts in an assembly is given in this column.

f. Maintenance Allowances Column.

(1) The maintenance allowance columns are divided into subcolumns. Indicated in each subcolumn is the total quantity of items authorized for the number of equipments supported. Items authorized for use as required, but not for initial stockage, are identified with an asterisk (*) in the allowance column.

(2) The quantitative allowances for DS/GS categories of maintenance will represent initial stockage for a 30-day period for the number of equipments supported.

g. One-Year Allowances Per 100 Equipments/Contingency Planning Purposes, Column. The total quantity required for distribution and contingency planning purposes is indicated in this column. The range of items indicates total quantities of all authorized items required to provide for adequate support of 100 equipments for one year.

h. Depot Maintenance Allowance Per 100 Equipments Column. This column indicates the total quantity of each item authorized depot maintenance for 100 equipments.

i. Illustrations Column.

(1) *Figure number (a).* The number of the illustration in which the item is shown and the maintenance category suffix number of the technical manual in which the illustration appears in this column. For example, if the illustration in which the item is shown is figure 1–13 of the organizational manual (–12), the manual suffix –12 appears on the first line and the illustration number 1–13 on the second line. Where no manual suffix appears, it indicates the illustration will be found in the manual.

(2) *Item No. or reference designation (b).* The callout number or reference designation used to reference the item in the illustration appears in this column.

B–4. Location of Repair Parts

a. This appendix contains two cross-reference indexes (sect. III and IV), to be used to locate a repair part when either the Federal stock number or reference designation is known. The first column in each index is prepared in numerical or alphanumerical sequence.

b. When the Federal stock number is known, follow the procedures given in (1), (2), and (3) below.

(1) Refer to the index of Federal stock numbers (sect. III) and locate the Federal stock number. The FSN is cross-referenced to the applicable figure and reference designation.

(2) Refer to the RPSTL (sect. II) and locate the figure number (col. 10*a*) and reference designation (col. 10*b*) as noted in the FSN index.

(3) If the FSN in not listed in the index, refer to column 2 of the RPSTL (sect. II) and locate the Federal stock number by scrutiny of the numbers listed in column 2.

c. When the reference designation is determined, refer to the reference designation index (sect. IV). The reference designations are listed in alphanumerical order and are cross referenced to the page number on which they appear in the repair parts list (sect. II). Refer to the page number noted in the index and locate the reference designation (col. 10*b*).

B–5. Federal Supply Codes

This paragraph lists the Federal supply code and the associated manufacturer's name.

Code Number	Manufacturer's Name
00656	Aerovox Corp
01401	WECO Products
02660	Amphenol Corp
07886	National Radio Co Inc. Commercial Products Div
12697	Clarostat Mfg Co Inc
14655	Cornell-Dubilier Electric Corp
23237	IRC Inc Microcircuits Div
27780	General Time Corp Industrial Controls Div
42498	National Co.
43334	New Departure-Hyatt Bearing Div General Motors
49675	Radio Corp of America, Broadcast and Communications Products Div
49956	Raytheon Co, Microwave and Power Tube Div
71590	Globe-Union Inc Centralab Div
71785	Cinch Mfg Co and Howard B. Jones Div
72825	Eby Hugh H. Inc
72982	Erie Technological Projects Inc
73680	Garback Inc
74042	Merit Coil and Transformer Corp
77342	American Machine & Foundry Co Potter and Brumfield Div
78488	Stackpole Carbon Co
80063	Army Electronics Command
80411	Robertshaw Controls Inc
80583	Hammarlund Mfg Co
81349	Military Specifications
82181	United Electric Co
82692	ITT World Communications Inc Mackay Marine Div
88356	Cardwell, Allen D Mfg Corp, Div of Cardwell Condenser Corp
98490	Simmons Co

SECTION II. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE — USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1 YR ALW PER EQUIP CNTGCY	(9) DEPOT MAINT ALW PER 100 EQUIP	(10) ILLUSTRATIONS	
					(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100			(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
G-C-R	5820-532-3979	RADIO SET AN/SRC-6A: (This item is nonexpendable) Portable Lifeboat Radio Set AN/SRC-6A is a rugged, compact, entirely self-contained radiotelegraph transmitter-receiver. This equipment is provided for communication on the 500kc distress frequency and on the long range 8364kc channel between survival craft and between such craft and rescue vessels or aircraft. All power required for operation of this radio equipment is provided by a built-in, hand-cranked electric generator.	EA										(-12) 1-1 4-2	
P-C	5820-219-7164	BAG, SIGNAL EQUIPMENT: Yellow canvas, w/straps; 16" long X 10 1/2" wide X 12" dia o/a; M-4391-12A; 82692	EA	1	*	*	*	*	*	*	5	2	(-12) 1-2	
P-C	5820-219-7165	BAG, SIGNAL EQUIPMENT: Canvas, yellow; 22" long X 5" wide X 5" dia; f/mast; M-4393-2A; 82692	EA		*	*	*	*	*	*	5	2	(-12) 1-2	
P-H	5930-636-2686	BAR, ACTUATOR, ELECTRICAL SWITCH: Phosphor bronze; black oxide fin rectangular shape; o/a dim 2" lg X 3/8" wide X 0.025" thk; M4112-1B; 82692	EA					*	*	*	5	2		
P-H	3110-155-8448	BEARING, BALL, ANNULAR: Inner and outer raceways concave; 0.625" bore dia; 1.375" od; 0.3438" wd; retainer type; 77R-10; 43334	EA	2				*	*	*	5	2		
P-O	5977-284-9418	BRUSH, ELECTRICAL CONTACT: Tinned copper clip type term end; spring 1 1/4" lg X 0.219"; SC-D-99877-95; 80063	EA	2	*	*	2	*	*	2	13	6		
P-O	5977-284-9419	BRUSH, ELECTRICAL CONTACT: SC-D-99877-96; 80063	EA	2	*	*	2	*	*	2	13	6		
P-F	5935-196-1428	COVER, ELECTRICAL CONNECTOR: MS25043-16C; 02660	EA	1	*	*	2	*	*	2	8	3	(-12) 1-1	
P-F	5910-112-8033	CAPACITOR, FIXED, CERAMIC DIELECTRIC: CC30CH100F; 81349	EA	[illegible]	*	*	2	*	*	2			3-1 4-3	C48
P-F	5910-667-6114	CAPACITOR, FIXED, CERAMIC DIELECTRIC: GA-4; 78488	EA	1	*	*	2	*	*	2	8	3	4-3	C14
P-F	5910-667-6103	CAPACITOR, FIXED, CERAMIC DIELECTRIC: GP1-331; 72982	EA	2	*	*	2	*	*	2			3-2 ② 4-3	C35 C40
P-F	5910-667-6174	CAPACITOR, FIXED, CERAMIC DIELECTRIC: GP1-331-100; 72982	EA	6	*	2	2	*	2	2	33	18	3-2 ② 3-4 4-3	C3, C17, C18, C22, C29, C32
P-F	5910-666-8036	CAPACITOR, FIXED, CERAMIC DIELECTRIC: GP2-331-1000; 72982	EA	6	*	2	2	*	2	2	33	18	3-2 ② 3-4 4-3	C15, C24, C38, C42, C51, C56
P-F	5910-666-8122	CAPACITOR, FIXED, CERAMIC DIELECTRIC: NPO-331-33± 3.3uuf; 72982	EA	1	*	*	2	*	*	2			4-3	C30
P-F	5910-280-5913	CAPACITOR, FIXED, CERAMIC DIELECTRIC: 6TM5D5GMC; 14655	EA	1	*	*	2	*	*	2	8	3	3-2 ② 4-3	C45
P-F	5910-666-8072	CAPACITOR, FIXED, CERAMIC DIELECTRIC: 811; 72982	EA	14	2	2	[illegible]	2	2	2	[illegible]	42	2-2 3-2 ② 3-4 4-3	C1, C2, C8, C11, C12, C19, C20, C23, C27, C28, C33, C34, C41, C58
P-F	5910-666-8119	CAPACITOR, FIXED, CERAMIC DIELECTRIC: 553A-102; 71590	EA	1	*	*	2	*	*	2			3-1 4-3	C49
P-F	5910-284-4949	CAPACITOR, FIXED, ELECTROLYTIC: SRE; 00656	EA	1	*	*	2	*	*	2	8	3	2-2 4-3	C57

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE (a) 1-20	(6) (b) 21-50	(6) (c) 51-100	(7) 30-DAY GS MAINT ALLOWANCE (a) 1-20	(7) (b) 21-50	(7) (c) 51-100	(8) 1 YR ALW PER EQUIP CNTGCY	(9) DEPOT MAINT ALW PER 100 EQUIP	(10) ILLUSTRATIONS (a) FIG NO.	(10) (b) ITEM NO. OR REFERENCE DESIGNATION
P-F	5950-396-3292	COIL, RADIOFREQUENCY: M-3983-1A; 82692		EA	1	*	*	2	*	*	2	8	3	3-1 4-3	L4
P-F	5950-396-3290	COIL, RADIOFREQUENCY: M-3981-1A; 82692		EA	1	*	*	2	*	*	2	8	3	3-1 4-3	L2
P-F	5950-396-3289	COIL, RADIOFREQUENCY: M-3980-1A; 82692		EA	1	*	*	2	*	*	2	8	3	3-1 4-3	L1
P-F	5935-149-3875	CONNECTOR, PLUG, ELECTRICAL: S-308-CCT; 71785		EA	1	*	*	*	*	*	*	5	2	3-1 4-3	PL1
P-F	5935-191-4117	CONNECTOR, RECEPTACLE, ELECTRICAL: AN3102-C-16-11P; 81349		EA	1	*	*	*	*	*	*	5	2	(-12) 1-1 3-2 ① 4-3	PL2
P-F	5935-149-2888	CONNECTOR, RECEPTACLE, ELECTRICAL: 1CP0005-8; 82181		EA	1	*	*	*	*	*	*	5	2	2-2 4-3	SK1
P-F	5825-502-6091	CONTACT, ELECTRICAL: 2 3/4" lg X 0.156" W X 0.020" L; 1 solder lug type term; chrom pl phos bronze contact surface; M-4334-1A; 82692		EA	1	*	*	2	*	*	2	8	3		
P-O	5820-219-7171	COVER, BAG: Canvas; yellow; 22" lg X 17" W; 14 snaps provided for mtg; M-4392-12A; 82692		EA	1	*	*	*	*	*	*	5	2	(-12) 1-2	
P-O	5825-219-6233	CRANK, ASSEMBLY, HAND: M-4134-12A; 82692		EA	2	*	*	*	*	*	*	10	4	(-12) 1-1	
P-O	5955-667-3166	CRYSTAL UNIT, QUARTZ: 500KC; CR28/U; 81349		EA	1	*	*	2	*	*	2	13	6	3-1 4-3	Y2
P-O	5955-295-7444	CRYSTAL UNIT, QUARTZ: 8364KC; CR-28/U; 81349		EA	1	*	*	2	*	*	2	12	6	3-1 4-3	Y1
P-F	5820-503-1361	DISK, KEYER: M-4337-12B; 82692		EA	1	*	*	2	*	*	2	5	2	3-2 ① 4-3	
P-F	5820-503-1360	DISK, KEYER: Keyer for code signals; M-4341-12; 82692		EA	1	*	*	2	*	*	2	5	2	(-12) 1-1	
P-O	5960-166-7673	ELECTRON TUBE: 6AQ5; 81349		EA	1	*	2	2	*	2	2	59	100	3-1 4-3	V5
P-O	5960-188-6589	ELECTRON TUBE: 6BJ6; 81349		EA	1	*	2	2	*	2	2	59	100	3-1 4-3	V2
P-O	5960-262-0243	ELECTRON TUBE: 6U8; 81349		EA	1	*	2	2	*	2	2	59	100	3-1 4-3	V1
P-O	5960-262-0167	ELECTRON TUBE: 12AT7WA; 81349		EA	3	2	2	2	2	2	2	130	300	3-1 4-3	V3, V4, V6
P-F	5325-025-3895	FASTENER (LATCH): 3 link lock w/no. 16 holes; 98490		EA	8	*	2	2	*	2	2	27	16	(-12) 1-1	
P-F	5330-298-5612	GASKET: Syn rubber and cork comp; rectangular w/yd corners; 16 1/16" of amperture X 10 1/2" W of amperture; 1/4" thk X 10 5/8" w o/a X 16 9/16 lg o/a; M-418342A; 82692		EA	1	*	*	*	*	*	*	5	2	(-12) 1-1	
P-F	5330-599-5975	GASKET: Mat'l cork & syn rubber; 9 bolt holes along lg; 5 bolt holes along width; M-4191-2A; 82692		EA	[illegible]	*	*	*	*	*	*	5	2		
P-F	5330-291-8964	GASKET: Syn rubber; rd shape; 1 3/4" dia of aper; 2 9/16" od X 1/16" thk; 4 bolt holes; SO-B-64283; 01401		EA	2	*	*	*	*	*	*	10	4		
P-O	5820-545-7529	GEAR, SPUR: Plain; brass; chrome plover nickel pl; [illegible]; three #6-32 tapped holes 180 [illegible] apart on hub; M-4342-1B; 82[illegible]		EA	1	*	*	*	*	*	*	5	2		
P-O	5820-324-8845	GEAR, SRUP: Plain; line base phenolic lam; 64 teeth; M-4344-1A; 82692		EA		*	*	*	*	*	*	5	2		

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION		(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1 YR ALW PER EQUIP CNTGCY	(9) DEPOT MAINT ALW PER 100 EQUIP	(10) ILLUSTRATIONS	
		REFERENCE NUMBER & MFR. CODE	USABLE ON CODE			(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100			(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
P-F	5910-100-8043	CAPACITOR, FIXED, MICA DIELECTRIC: CM20B271K; 81349		EA	1	*	*	2	*	*	2	8	3	3-2 ② 4-3	C31
P-F	5910-101-4884	CAPACITOR, FIXED, MICA DIELECTRIC: CM20B511J; 81349		EA	1	*	*	2	*	*	2	8	3	3-3 4-3	C54
P-F	5910-101-3995	CAPACITOR, FIXED, MICA DIELECTRIC: CM30B152K; 81349		EA	1	*	*	2	*	*	2	8	3	3-3 4-3	C53
P-F	5910-100-8071	CAPACITOR, FIXED MICA DIELECTRIC: CM30B681K; 81349		EA	1	*	*	2	*	*	2	8	3	3-2 ② 4-3	C5
P-F	5910-101-4676	CAPACITOR, FIXED, MICA DIELECTRIC: CM35B562K; 81349		EA	1	*	*	2	*	*	2	8	3	3-2 (2) 4-3	C37
P-F	5910-190-9522	CAPACITOR, FIXED, MICA DIELECTRIC: SC-C-62532-7; 80063		EA	1	*	*	2	*	*	2	8	3	4-3	C21
P-F	5910-648-8479	CAPACITOR, FIXED, MICA DIELECTRIC: TU2557DGSIG; 71590		EA	1	*	*	2	*	*	2	8	3	3-1 4-3	C47
P-F	5910-191-2832	CAPACITOR, FIXED, MICA DIELECTRIC: 1D5D5; 14655		EA	1	*	*	2	*	*	2	8	3	3-3 4-3	C52
P-F	5910-667-5606	CAPACITOR, FIXED, MICA DIELECTRIC: 2R-5D1; 14655		EA	1	*	*	2	*	*	2	8	3	3-2 ② 4-3	C36
P-F	5910-184-3127	CAPACITOR, FIXED, MICA DIELECTRIC: 5R5T2; 14655		EA	1	*	*	2	*	*	2	8	3	4-3	C4
P-F	5910-812-1043	CAPACITOR, FIXED, MICA DIELECTRIC: 5W5T18; 14655		EA	1	*	*	2	*	*	2	8	3	3-3 4-3	C55
P-F	5910-194-7435	CAPACITOR, FIXED, PAPER DIELECTRIC: CP25A1EC104M; 81349		EA	1	*	*	2	*	*	2	8	3	3-2 ② 4-3	C10
P-F	5910-112-7620	CAPACITOR, FIXED, PAPER DIELECTRIC: CP26A1EF503M; 81349		EA	1	*	*	2	*	*	2	8	3	3-4 4-3	C25
P-F	5910-129-6260	CAPACITOR, FIXED, PAPER DIELECTRIC: CP53B1EF105K; 81349		EA	1	*	*	2	*	*	2	8	3	2-2 4-3	C26
P-F	5910-112-7234	CAPACITOR, FIXED, PAPER DIELECTRIC: CP53B4FF254L; 81349		EA	1	*	*	2	*	*	2	8	3	4-3	C44A, C44B
P-F	5910-690-7218	CAPACITOR, FIXED, PAPER DIELECTRIC: P-82; 00656		EA	1	*	*	2	*	*	2	8	3	3-3 4-3	C43
P-F	5910-666-7807	CAPACITOR, VARIABLE, AIR DIELECTRIC: PL-6055; type 2R-100-AS; 88356		EA	1	*	*	2	*	*	2	8	3	3-3 4-3	C46
P-F	5910-545-7889	CAPACITOR, VARIABLE, AIR DIELECTRIC: 11725-1; APC-25; 80583		EA	1	*	*	2	*	*	2	8	3	3-2 4-3	C39
P-F	5910-128-7164	CAPACITOR, VARIABLE, AIR DIELECTRIC: 2R-35-AS; 88356		EA	1	*	*	2	*	*	2	8	3	3-1 4-3	C6
P-F	5910-556-9439	CAPACITOR, VARIABLE, CERAMIC DIELECTRIC: CV11A120; 81349		EA	1	*	*	2	*	*	2	8	3	3-1 4-3	C50
P-O	4440-269-8535	CARTRIDGE, DEHYDRATOR: M-4377-2A; 82692		EA	1	2	2	3	2	2	2	33	20	(-12) 1-1 3-2 ①	
P-F	5950-645-0296	COIL, RADIOFREQUENCY: C50527-15; 07886		EA	2	*	*	2	*	*	2	13	6	2-2 3-2 ① 4-3	L11, L12
P-F	5950-049-7780	COIL, RADIOFREQUENCY: M-3985-1B; 82692		EA	1	*	*	2	*	*	2	8	3	3-1 4-3	L7
P-F	5950-266-0631	COIL, RADIOFREQUENCY: R-33-100; 42498		EA	2	*	*	2	*	*	2	13	6	3-2 ① 4-3	L9, L10
P-F	5950-396-3293	COIL, RADIOFREQUENCY: M-3984-1A; 82692		EA	1	*	*	2	*	*	2	8	3	3-1 4-3	L6
P-F	5950-396-3291	COIL, RADIOFREQUENCY: M-3982-1A; 82692		EA	1	*	*	2	*	*	2	8	3	3-1 4-3	L3

SECTION II. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (CONTINUED)

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION REFERENCE NUMBER & MFR. CODE	USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1 YR ALW PER EQUIP CNTGCY	(9) DEPOT MAINT ALW PER 100 EQUIP	(10) ILLUSTRATIONS	
						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100			(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
P-F	6115-324-9037	GENERATOR, DIRECT CURRENT: M-4311-12A; 82692		EA	1	*	*	2	*	*	2	8	3	2-2 4-3	G1
P-0	5820-537-3776	GUY: Tension member; rope type; nylon; 20 ft effective lg; accessories; 1 snap hook; M-4368-2A; 82692		EA	3	*	*	2	*	*	2	13	6	(-12) 2-3	
P-0	5975-521-7350	GUY: M-4369-2A; 82692		EA	1	*	*	*	*	*	*	5	2	(-12) 2-3	
P-F	5965-537-3808	HEADSET, ELECTRICAL: M-4161-1; 82692		EA	1	*	*	*	*	*	*	5	2	(-12) 1-1 3-2 ① 4-3	HT-1
P-F	5820-537-3600	HOLDER: M-4176-1A; 82692		EA	1	*	*	*	*	*	*	5	2		
P-F	5970-669-7155	INSULATOR, FEEDTHRU: M-4113-1B; 82692		EA	1	*	*	*	*	*	*	5	2		
P-0	5355-680-1357	KNOB: Volume control; operation selector; rec tuning; MS91528-1F2D; 80063		EA	3	*	2	2	*	2	2	18	9	(-12) 1-1	
P-0	5355-519-6399	KNOB: F/ant-tuning 500kc; ant-tuning 8-364mc; 125 series; catalog 125-1-2G; 49956		EA	2	*	*	2	*	*	2	13	6	(-12) 1-1	
P-0	6240-223-9100	LAMP, GLOW: NE-51; GE		EA	1	2	2	3	2	2	2	71	50	3-1 4-3	I1
P-0	5995-279-1796	LEAD, ELECTRICAL: (Ground wire) M-4312-1A; 82692		EA	1	*	*	2	*	*	2	8	3	(-12) 1-1	
P-0	5985-669-9007	MAST BASE: M-4302-12A; 82692		EA	1	*	*	2	*	*	2	8	3	(-12) 2-3 2-4	
P-0	5820-586-5606	MAST SECTION: M-4193-2A; 82692		EA	2	*	*	2	*	*	2	13	6	(-12) 2-3 2-4	
P-0	5985-283-6219	MAST SECTION: M-4303-2A; 82692		EA	1	*	*	2	*	*	2	8	3	(-12) 2-3 2-4	
P-0	5985-545-7177	MAST SECTION: M-4308-2A; 82692		EA	1	*	*	2	*	*	2	8	3	(-12) 2-3 2-4	
P-F	6105-324-9079	MOTOR, DIRECT CURRENT: MD83-2RPM; 27780		EA	1	*	*	2	*	*	2	8	3	2-2 4-3	B1
P-F	5950-295-7845	REACTOR: C-2976; 74042		EA	1	*	*	2	*	*	2	8	3	3-2 ① 4-3	L5
P-F	6110-239-9056	REGULATOR, VOLTAGE: SC-B-61131; 80063		EA	1	*	*	2	*	*	2	8	3	2-2 4-3	VR1
P-F	5945-258-3897	RELAY, ARMATURE: KR11D; 77342		EA	1	*	*	2	*	*	2	8	3	3-2 ① 4-3	K1
P-F	5905-195-6817	RESISTOR, FIXED, COMPOSITION: RC20GF102K; 81349		EA	1	*	*	2	*	*	2	8	3	3-4 4-3	R3
P-F	5905-185-8518	RESISTOR, FIXED, COMPOSITION: RC20GF103K; 81349		EA	1	*	*	2	*	*	2	8	3	3-4 4-3	R20
P-F	5905-279-1869	RESISTOR, FIXED, COMPOSITION: RC20GF121K; 81349		EA	1	*	*	2	*	*	2	8	3	3-4 4-3	R7
P-F	5905-195-6500	RESISTOR, FIXED, COMPOSITION: RC20GF124K; 81349		EA	2	*	*	2	*	*	2	13	6	3-4 4-3	R2, R14
P-F	5905-239-0583	RESISTOR, FIXED, COMPOSITION: RC20GF125K; 81349		EA	3	*	2	2	*	2	2	18	9	3-2 ① 4-3	R33, R36, R41
P-F	5905-192-0662	RESISTOR, FIXED, COMPOSITION : RC20GF184K; 81349		EA	1	*	*	2	*	*	2	8	3	3-3 4-3	R38

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		REFERENCE NUMBER & MFR. CODE	USABLE ON CODE			(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100			(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
P-F	5905-256-0409	RESISTOR, FIXED, COMPOSITION: RC20GF221K; 81349		EA	2	*	2	2	*	2	2	13	6	3-3 4-3	R24 R26
P-F	5905-195-6758	RESISTOR, FIXED, COMPOSITION: RC20GF273K; 81349		EA	2	*	2	2	*	2	2	13	6	3-2 ① 4-3	R25 R27
P-F	5905-171-1997	RESISTOR, FIXED, COMPOSITION: RC20GF331K; 81349		EA	1	*	*	2	*	*	2	8	3	3-2 ① 4-3	R34
P-F	5905-249-4248	RESISTOR, FIXED, COMPOSITION: RC20GF333K; 81349		EA	3	*	2	2	*	2	2	18	9	3-2 ① 4-3	R4, R13, R29
P-F	5905-221-5860	RESISTOR, FIXED, COMPOSITION: RC20GF334K; 81349		EA	1	*	*	2	*	*	2	8	3	3-3 4-3	R32
P-F	5905-279-1884	RESISTOR, FIXED, COMPOSITION: RC20GF335K; 81349		EA	1	*	*	2	*	*	2	8	3	3-2 ① 4-3	R12
P-F	5905-195-6451	RESISTOR, FIXED, COMPOSITION: RC20GF472K; 81349		EA	2	*	2	2	*	2	2	13	6	3-2 ① 4-3	R21, R42
P-F	5905-295-3410	RESISTOR, FIXED, COMPOSITION: RC20GF473K; 81349		EA	1	*	*	2	*	*	2	8	3	3-2 ① 4-3	R10
P-F	5905-185-6945	RESISTOR, FIXED, COMPOSITION: RC20GF474K; 81349		EA	2	*	*	2	*	*	2	13	6	3-3 4-3	R11, R39
P-F	5905-245-0023	RESISTOR, FIXED, COMPOSITION: RC20GF682K; 81349		EA	1	*	*	2	*	*	2	8	3	3-2 ① 4-3	R35
P-F	5905-254-7087	RESISTOR, FIXED, COMPOSITION: RC20GF683K; 81349		EA	1	*	*	2	*	*	2	8	3	3-3 4-3	R37
P-F	5905-221-5849	RESISTOR, FIXED, COMPOSITION: RC20GF824K; 81349		EA	1	*	*	2	*	*	2	8	3	4-3	R1
P-F	5905-195-6501	RESISTOR, FIXED, COMPOSITION: RC30GF104K; 81349		EA	1	*	*	2	*	*	2	8	3	4-3	R18
P-F	5905-279-1520	RESISTOR, FIXED, COMPOSITION: RC30GF121K; 81349		EA	1	*	*	2	*	*	2	8	3	3-2 ① 4-3	R22
P-F	5905-192-9187	RESISTOR, FIXED, COMPOSITION: RC30GF473K; 81349		EA	2	*	*	2	*	*	2	13	6	3-4 4-3	R5, R8
P-F	5905-299-2002	RESISTOR, FIXED, COMPOSITION: RC32GF124K; 81349		EA	1	*	*	2	*	*	2	8	3	3-4 4-3	R15
P-F	5905-249-4233	RESISTOR, FIXED, COMPOSITION: RC42GF223K; 81349		EA	2	*	2	2	*	2	2	13	6	3-3 4-3	R23, R28
P-F	5905-190-8873	RESISTOR, FIXED, COMPOSITION: RC42GF473K; 81349		EA	1	*	*	2	*	*	2	8	3	3-3 4-3	R30
P-F	5905-249-4198	RESISTOR, FIXED, COMPOSITION: RC42GF822K; 81349		EA	1	*	*	2	*	*	2	8	3	3-3 4-3	R31
P-F	5905-101-0660	RESISTOR, FIXED, WIREWOUND: RU3B100K; 81349		EA	1	*	*	2	*	*	2	8	3	4-3	R43
P-F	5905-195-3467	RESISTOR, FIXED, WIREWOUND: 1 3/4" A; 23237		EA	1	*	*	2	*	*	2	8	3	3-2 ① 4-3	R16
P-F	5905-280-0825	RESISTOR, VARIABLE: RV4ATRJ103E; 81349		EA	1	*	*	2	*	*	2	8	3	3-1 4-3	R19
P-F	5905-280-0802	RESISTOR, VARIABLE: 43; 12697		EA	2	*	2	2	*	2	2	13	6	2-2 4-3	R17, R40
P-0	5305-206-2029	SCREW, MACHINE: M-4336-1A; 82692		EA	28	2	2	3	2	2	2	77	56	(-12 1-1	
P-F	5330-514-5026	SEAL, PLAIN ENCASED: Steel case 5/8" shaft dia; 1/375" bore dia. 5/16" wd; molded syn rubber sealing member; vac surface speed; drive unit; 63 X 91; 73680		EA	2	*	*	*	*	*	*	10	4		

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						(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100			(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
P-0	5960-272-9094	SHIELD, ELECTRON TUBE: F/V2; TS102U02; 81349		EA	1	*	2	2	*	2	2	19	10	3-1	
P-0	5960-295-7652	SHIELD, ELECTRON TUBE: F/V5; TS102U03; 81349		EA	1	*	2	2	*	2	2	19	10	3-1	
P-0	5960-264-3004	SHIELD, ELECTRON TUBE: F/V1, V3, V4, V6; TS103U02; 81349		EA	4	2	2	3	2	2	2	65	40	3-1	
P-F	5935-259-9762	SOCKET ASSEMBLY, CRYSTAL: M-4137-2A; 82692		EA	1	*	*	*	*	*	*	8	3		
P-F	5935-260-0516	SOCKET, ELECTRON TUBE: TS102P01; 81349		EA	2	*	*	2	*	*	2	13	6		
P-F	5935-204-8173	SOCKET, ELECTRON TUBE: 9718; 72825		EA	4	*	2	2	*	2	2	19	12		
P-F	5935-330-9699	SOCKET, ELECTRON TUBE: M-4163-1A; 82692		EA	1	*	*	2	*	*	2	8	3		
P-F	5820-395-9187	SPRING: Silver pl phosphor bronze; rectangular; 1 1/4" lg X 1/2" W X 0.025" thk i/a; 0.177" dia mtg hole; A-11642; 49675		EA	2	*	*	2	*	*	2	13	6		
P-F	8465-634-5187	STRAP, CANVAS BAG: M-4394-1A; 82692		EA	2	*	*	2	*	*	2	10	4	(-12 1-2	
P-0	8465-641-0013	STRAP, CANVAS BAG: M-4395-1A; 82692		EA	2	*	*	2	*	*	2	10	4	(-12 1-1	
P-F	5930-296-5822	SWITCH, PUSH: 3N05-5P; 80411		EA	1	*	*	2	*	*	2	8	3	4-3	S2
P-F	5930-548-9971	SWITCH, ROTARY: M-3988-1; 82692		EA	1	*	*	2	*	*	2	8	3	3-1 4-3	S3
P-F	5930-548-6616	SWITCH, ROTARY: M-3988-1; 82692		EA	1	*	*	2	*	*	2	8	3	3-2 ① 4-3	S1
P-F	5930-296-9820	SWITCH, SENSITIVE: M-4315-1; 82692		EA	1	*	*	2	*	*	2	8	3	2-2 4-3	S4
P-F	5940-399-7820	TERMINAL BOARD: Phenolic; incl 28 turrent lug term; 6" lg X 2" W X 1/16" thk o/a; M-4127-2C; part 1; 82692		EA	1	*	*	*	*	*	*	5	2		
P-F	5940-399-7819	TERMINAL BOARD: Phenolic; incl 28 turrent lug term; 6" lg X 2" W X 1/16" thk o/a; M-4127-2C part 2; 82692		EA	1	*	*	*	*	*	*	5	2		
P-F	5950-648-2372	TRANSFORMER, INTERMEDIATE, FREQUENCY: KTRAN E10-2262; Auto mfg		EA	2	*	*	*	*	*	*	10	4	3-1 3-2 ① 4-3	T2, T3
P-F	5950-545-7813	TRANSFORMER, RADIOFREQUENCY: M-3938-1A; 82692		EA	1	*	*	*	*	*	*	5	2	3-1 3-2 ① 4-3	T1
P-F	5950-646-3203	TRANSFORMER, VARIABLE, RADIOFREQUENCY: M-3986-12B: 82692		EA	1	*	*	*	*	*	*	5	2	3-1 4-3	L8
P-F	5330-298-6513	WASHER, NONMETALLIC: Synthetic rubber; 1 3/4" od; 13/16" id; 1/16" thk; M-4328-1A; 82692		EA	1	*	*	*	*	*	*	5	2		
		DUMMY ANTENNA GROUP (ARTIFICIAL ANTENNA)													
P-F	5910-280-8386	CAPACITOR, FIXED, CERAMIC DIELECTRIC: 850S-100N; 71590		EA	1	*	*	*	*	*	2	8	3	4-3	C1
P-F	5999-502-1138	COIL, RADIOFREQUENCY: M-4185-1A; 82692		EA	1	*	*	2	*	*	2	8	3	4-3	L1

SECTION II. REPAIR PARTS FOR DIRECT SUPPORT, GENERAL SUPPORT, AND DEPOT MAINTENANCE (CONTINUED)

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION		(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 30-DAY DS MAINT ALLOWANCE			(7) 30-DAY GS MAINT ALLOWANCE			(8) 1 YR ALW PER EQUIP CNTGCY	(9) DEPOT MAINT ALW PER 100 EQUIP	(10) ILLUSTRATIONS	
		REFERENCE NUMBER & MFR. CODE	USABLE ON CODE			(a) 1-20	(b) 21-50	(c) 51-100	(a) 1-20	(b) 21-50	(c) 51-100			(a) FIG NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
P-F	5905-279-1976	RESISTOR, FIXED, COMPOSITION: RC42GF101K: 81349		EA	3	*	2	2	*	2	2	18	9	4-3	R1, R2, R3
P-F	5905-279-1925	RESISTOR, FIXED, COMPOSITION: RC42GF270K: 81349		EA	3	*	2	2	*	2	2	18	9	4-3	R4, R5, R6

SECTION III. INDEX-FEDERAL STOCK NUMBER CROSS REFERENCE TO FIGURE AND ITEM NUMBER OR REFERENCE DESIGNATION

FEDERAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER OR REF. DESIGNATION
5905-101-0660	4-3	R43
5905-171-1997	3-2①	R34
5905-185-6945	3-3	R11
5905-185-8518	3-4	R20
5905-190-8873	3-3	R30
5905-192-0662	3-3	R38
5905-192-9187	3-4	R5
5905-195-3467	3-2①	R16
5905-195-6451	3-2①	R21
5905-195-6500	3-4	R2
5905-195-6501	4-3	R18
5905-195-6758	3-2①	R25
5905-195-6817	3-4	R3
5905-221-5849	4-3	R1
5905-221-5860	3-3	R32
5905-239-0583	3-2①	R33
5905-245-0023	3-2①	R35
5905-249-4198	3-3	R31
5905-249-4233	3-3	R23
5905-249-4248	3-2①	R4
5905-254-7087	3-3	R37
5905-256-0409	3-3	R24
5905-279-1520	3-2①	R22
5905-279-1869	3-4	R7
5905-279-1884	3-2①	R12
5905-279-1925	4-3	R4
5905-279-1976	4-3	R1
5905-280-0802	2-2	R17
5905-280-0825	3-1	R19
5905-295-3410	3-2①	R10
5905-299-2002	3-4	R15
5910-100-8043	3-2②	C31

FEDERAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER OR REF. DESIGNATION
5910-100-8071	3-2②	C5
5910-101-3995	3-3	C53
5910-101-4676	3-2②	C37
5910-101-4884	3-3	C54
5910-112-7234	4-3	C44A
5910-112-7620	3-4	C25
5910-112-8033	3-1	C48
5910-128-7164	3-1	C6
5910-129-6260	2-2	C26
5910-184-3127	4-3	C4
5910-190-9522	4-3	C21
5910-191-2832	3-3	C52
5910-194-7435	3-2②	C10
5910-280-5913	3-2②	C45
5910-280-8386	4-3	C1
5910-284-4949	2-2	C57
5910-545-7889	3-2②	C39
5910-556-9439	3-1	C50
5910-648-8479	3-1	C47
5910-666-7807	3-1	C46
5910-666-8036	3-2②	C15
5910-666-8072	2-2	C1
5910-666-8119	3-1	C49
5910-666-8122	4-3	C30
5910-667-5606	3-2②	C36
5910-667-6114	4-3	C14
5910-667-6174	3-2②	C3
5910-690-7218	3-3	C43
5910-812-1043	3-3	C55
5930-296-5822	4-3	S2
5930-296-9820	2-2	S4
5930-548-6616	3-2①	S1

SECTION III. INDEX-FEDERAL STOCK NUMBER CROSS REFERENCE TO FIGURE AND ITEM NUMBER OR REFERENCE DESIGNATION (CONTINUED)

FEDERAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER OR REF. DESIGNATION	FEDERAL STOCK NUMBER	FIGURE NUMBER	ITEM NUMBER OR REF. DESIGNATION
5930-548-9971	3-1	S3			
5935-149-2888	2-2	SK1			
5935-149-3875	3-1	PL1			
5935-191-4117	(-12) 1-1	PL2			
5945-258-3897	3-2(1)	K1			
5950-049-7780	3-1	L7			
5950-266-0631	3-2(1)	L9			
5950-295-7845	3-2(1)	L5			
5950-396-3289	3-1	L1			
5950-396-3290	3-1	L2			
5950-396-3291	3-1	L3			
5950-396-3292	3-1	L4			
5950-396-3293	3-1	L6			
5950-545-7813	3-1	T1			
5950-645-0296	2-2	L11			
5950-646-3203	3-1	L8			
5950-648-2372	3-1	T2			
5955-295-7444	3-1	Y1			
5955-667-3166	3-1	Y2			
5960-166-7673	3-1	V5			
5960-188-6589	3-1	V2			
5960-262-0167	3-1	V3			
5960-262-0243	3-1	V1			
5965-537-3808	(-12) 1-1	HT-1			
5999-502-1138	4-3	L1			
6105-324-9079	2-2	B1			
6110-239-9056	2-2	VR1			
6115-324-9037	2-2	G1			
6240-223-9100	3-1	I1			

SECTION IV. INDEX-REFERENCE DESIGNATION
CROSS REFERENCE TO PAGE NUMBER

REFERENCE DESIGNATION	PAGE NUMBER	REFERENCE DESIGNATION	PAGE NUMBER	REFERENCE DESIGNATION	PAGE NUMBER
B1	E-4	C36	E-2	L5	E-4
C1	E-6	C37	E-2	L6	E-2
C2	E-1	C38	E-4	L7	E-2
C3	E-1	C39	E-2	L8	E-6
C4	E-2	C41	E-1	L9	E-2
C5	E-2	C42	E-1	L10	E-2
C6	E-2	C43	E-2	L11	E-2
C8	E-1	C44A	E-2	L12	E-2
C10	E-2	C44B	E-2	PL1	E-3
C11	E-1	C45	E-1	PL2	E-3
C12	E-1	C46	E-2	R1	E-7
C14	E-1	C47	E-2	R2	E-7
C15	E-1	C48	E-1	R3	E-7
C17	E-1	C49	E-1	R4	E-7
C18	E-1	C50	E-2	R5	E-7
C19	E-1	C51	E-1	R6	E-7
C20	E-1	C52	E-2	R7	E-4
C21	E-1	C53	E-2	R8	E-5
C22	E-1	C54	E-2	R10	E-5
C23	E-1	C55	E-2	R11	E-5
C24	E-1	C56	E-1	R12	E-5
C25	E-2	C57	E-1	R13	E-5
C26	E-2	C58	E-1	R14	E-4
C27	E-1	G1	E-4	R15	E-5
C28	E-1	HT-1	E-4	R16	E-5
C29	E-1	I1	E-4	R17	E-5
C30	E-1	K1	E-4	R18	E-5
C31	E-2	L1	E-6	R19	E-5
C32	E-1	L2	E-3	R20	E-4
C33	E-1	L3	E-2	R21	E-5
C34	E-1	L4	E-3	R22	E-5

SECTION IV. INDEX-REFERENCE DESIGNATION CROSS REFERENCE TO PAGE NUMBER (CONTINUED)

REFERENCE DESIGNATION	PAGE NUMBER
R23	E-5
R24	E-5
R25	E-5
R26	E-5
R27	E-5
R28	E-5
R29	E-5
R30	E-5
R31	E-5
R32	E-5
R33	E-4
R34	E-5
R35	E-5
R36	E-4
R37	E-5
R38	E-4
R39	E-5
R40	E-5
R41	E-4
R42	E-5
R43	E-5
S1	E-6
S2	E-6
S3	E-6
S4	E-6
SK1	E-3
T1	E-6
T2	E-6
T3	E-6
V1	E-3
V2	E-3
V3	E-3
V4	E-3
V5	E-3
V6	E-3
VR1	E-4
Y1	E-3
Y2	E-3

By Order of the Secretary of the Army:

W. C. WESTMORELAND,
General, United States Army,
Chief of Staff.

Official:

KENNETH G. WICKHAM,
Major General, United States Army,
The Adjutant General.

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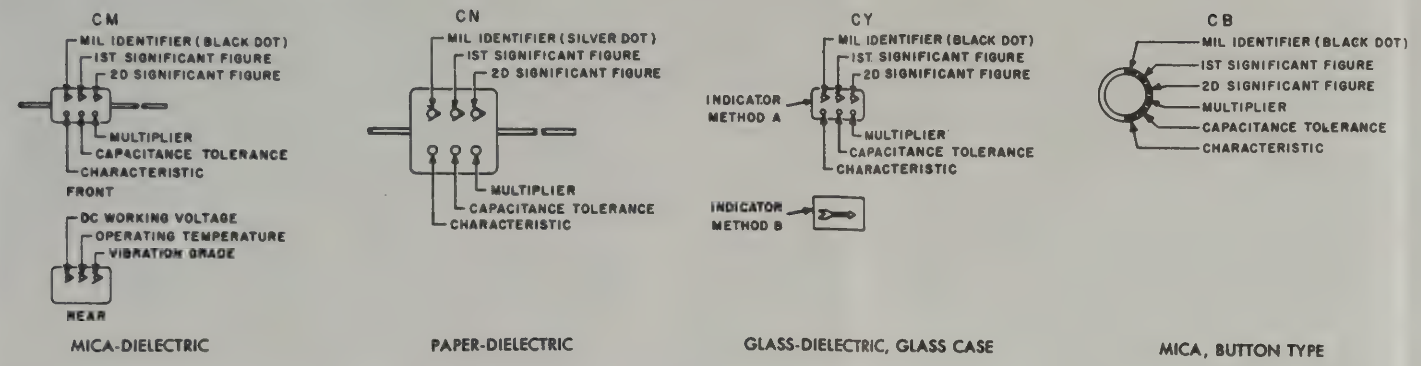
- C2

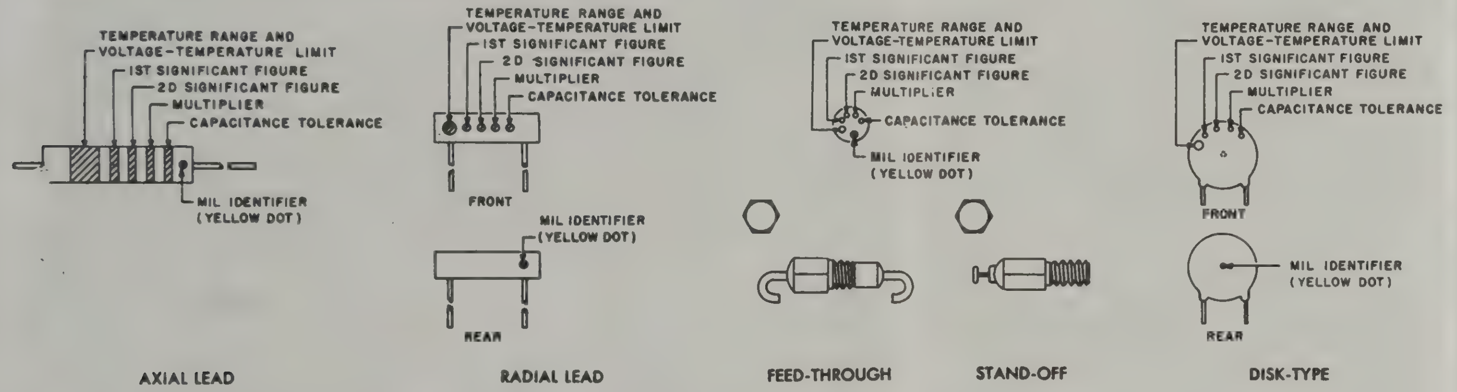
COLOR CODE MARKING FOR MILITARY STANDARD CAPACITORS

GROUP I Capacitors, Fixed, Various-Dielectrics, Styles CM, CN, CY, and CB



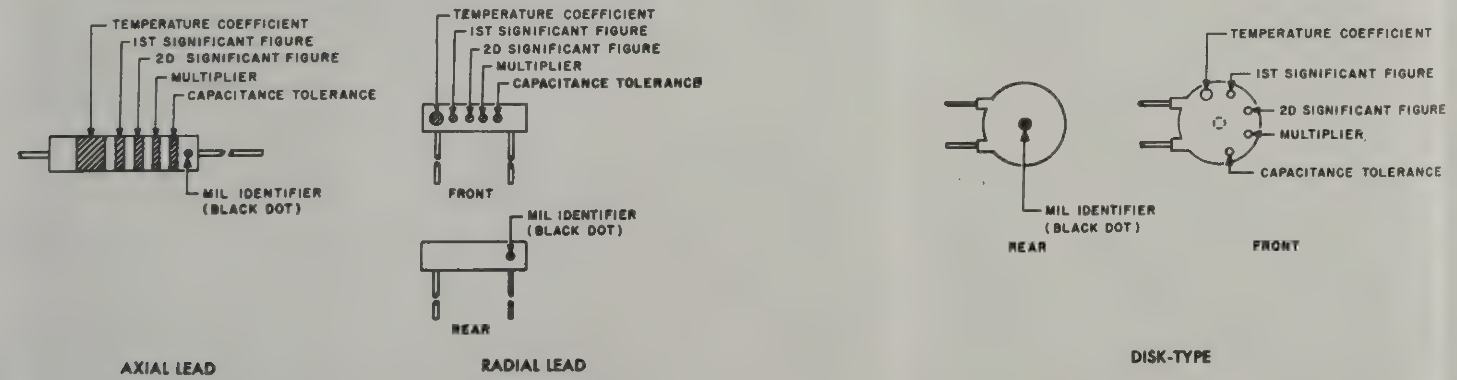
MICA-DIELECTRIC PAPER-DIELECTRIC GLASS-DIELECTRIC, GLASS CASE MICA, BUTTON TYPE

GROUP II Capacitors, Fixed Ceramic-Dielectric (General Purpose) Style CK



AXIAL LEAD RADIAL LEAD FEED-THROUGH STAND-OFF DISK-TYPE

GROUP III Capacitors, Fixed, Ceramic-Dieletric (Temperature Compensating) Style CC



AXIAL LEAD RADIAL LEAD DISK-TYPE

COLOR CODE TABLES

TABLE I – For use with Group I, Styles CM, CN, CY and CB

COLOR	MIL ID	1st SIG FIG	2nd SIG FIG	MULTIPLIER[1]	CAPACITANCE TOLERANCE				CHARACTERISTIC[2]				DC WORKING VOLTAGE	OPERATING TEMP. RANGE	VIBRATION GRADE
					CM	CN	CY	CB	CM	CN	CY	CB	CM	CM	CM
BLACK	CM, CY CB	0	0	1			± 20%	± 20%		A				−55° to +70°C	10–55 cps
BROWN		1	1	10					B	E		B			
RED		2	2	100	± 2%		± 2%	± 2%	C		C			−55° to +85°C	
ORANGE		3	3	1,000		± 30%			D			D	300		
YELLOW		4	4	10,000					E					−55° to +125°C	10–2,000 cps
GREEN		5	5		± 5%				F				500		
BLUE		6	6											−55° to +150°C	
PURPLE (VIOLET)		7	7												
GREY		8	8												
WHITE		9	9												
GOLD				0.1			± 5%	± 5%							
SILVER	CN				± 10%	± 10%	± 10%	± 10%							

TABLE II – For use with Group II, General Purpose, Style CK

COLOR	TEMP. RANGE AND VOLTAGE – TEMP. LIMITS[3]	1st SIG FIG	2nd SIG FIG	MULTIPLIER[1]	CAPACITANCE TOLERANCE	MIL ID
BLACK		0	0	1	± 20%	
BROWN	AW	1	1	10	± 10%	
RED	AX	2	2	100		
ORANGE	BX	3	3	1,000		
YELLOW	AV	4	4	10,000		CK
GREEN	CZ	5	5			
BLUE	BV	6	6			
PURPLE (VIOLET)		7	7			
GREY		8	8			
WHITE		9	9			
GOLD						
SILVER						

TABLE III – For use with Group III, Temperature Compensating, Style CC

COLOR	TEMPERATURE COEFFICIENT[4]	1st SIG FIG	2nd SIG FIG	MULTIPLIER[1]	CAPACITANCE TOLERANCE		MIL ID
					Capacitances over 10uuf	Capacitances 10uuf or less	
BLACK	0	0	0	1		± 2.0uuf	CC
BROWN	−30	1	1	10	± 1%		
RED	−80	2	2	100	± 2%	± 0.25uuf	
ORANGE	−150	3	3	1,000			
YELLOW	−220	4	4				
GREEN	−330	5	5		± 5%	± 0.5uuf	
BLUE	−470	6	6				
PURPLE (VIOLET)	−750	7	7				
GREY		8	8	0.01			
WHITE		9	9	0.1	± 10%		
GOLD	+100					± 1.0uuf	
SILVER							

1. The multiplier is the number by which the two significant (SIG) figures are multiplied to obtain the capacitance in uuf.
2. Letters indicate the Characteristics designated in applicable specifications: MIL–C–5, MIL–C–91, MIL–C–11272, and MIL–C–10950 respectively.
3. Letters indicate the temperature range and voltage-temperature limits designated in MIL–C–11015.
4. Temperature coefficient in parts per million per degree centigrade.

STD–C2

Figure 4–2. Color code marking for MIL–STD capacitors.

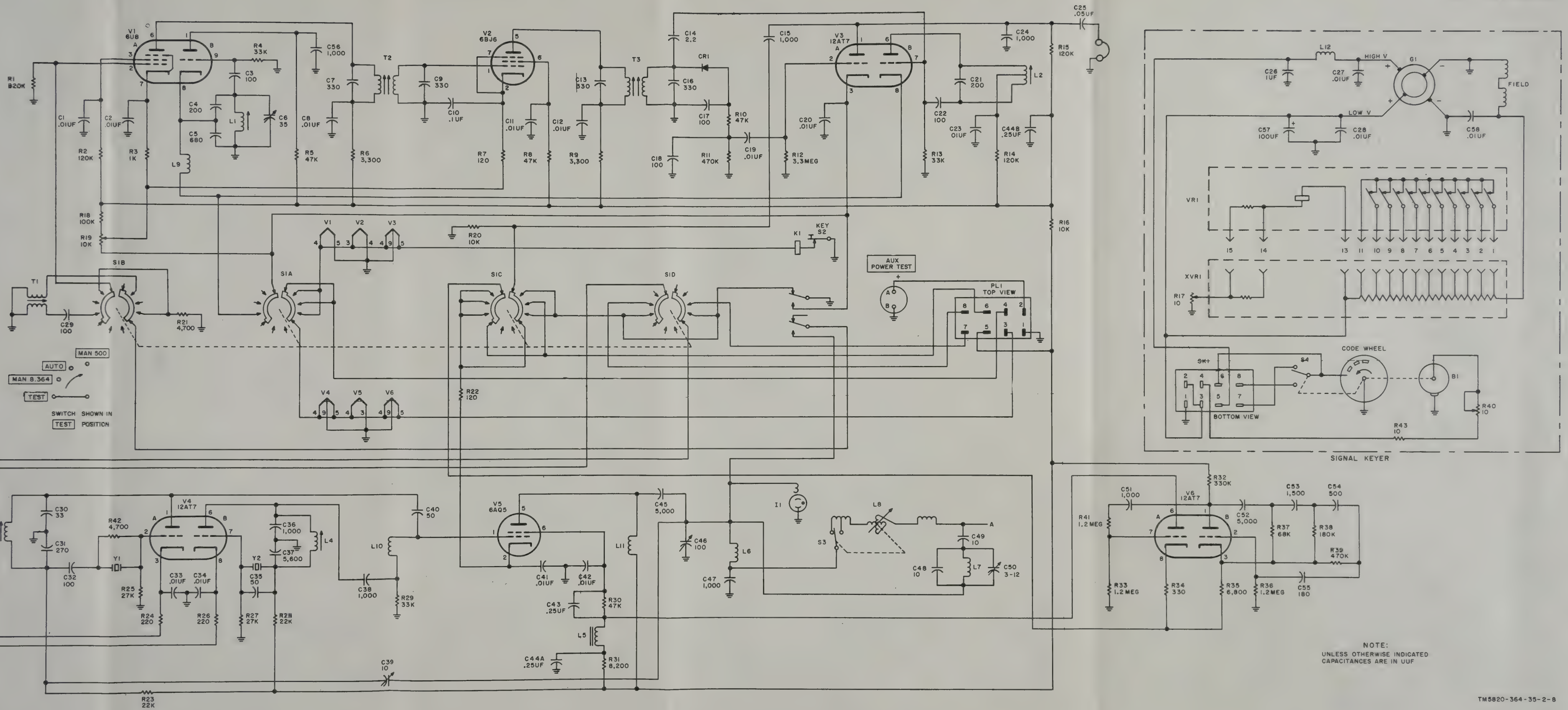


Figure 4-3. Schematic diagram.